

Power supplies

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

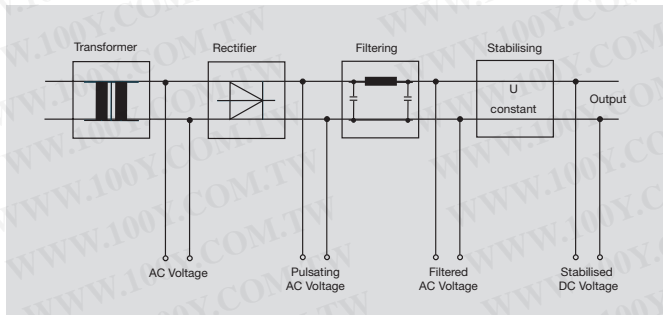
Power supplies

Introduction	E.2
Standards and approvals	E.3
Switch-mode power supplies	E.4
Diode modules	E.22
DC/DC converter	E.24
Unregulated power supplies	E.30
UPS control unit	E.36
Fuse protection for 24 V DC circuits	E.38

Introduction

Transformers and power supplies are important links in the energy supply chain of automation systems. They form the heart of each and every electrical cabinet. 24 V has become established as a control voltage throughout the world, supplying power to all manner of electrical subassemblies. Other voltages are still also being used to power user applications.

Careful consideration must be given to choosing the correct power supply as this is decisive for the connected components to function reliably.



Weidmüller power supplies have proven themselves over many years in the supply of power to electrical subassemblies. They carry the CE mark and meet the requirements contained in the standards DIN EN 50081-1 and DIN EN 50082-2 (as of 1st April 2002, EN 61000-6-2).

As a result, they are suitable for use in industry, small businesses and residential areas. Their performance capabilities have also been proven in harsh environments.

Weidmüller can provide industry-standard power supplies and supplementary components:

- Unregulated transformer power supplies
- Primary switch-mode power supplies
- DC/DC converters
- Diode modules
- UPS control modules
- Electronic fusing

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Power supply units always consist of a transformer, which converts an AC voltage into a different AC voltage to meet application requirements.

A rectifier converts the AC voltage on the secondary side into a pulsating DC voltage, which is smoothed by means of a filter circuit.

The output voltage of stabilised power supply units is kept constant by means of a stabilising unit.

Input voltage in accordance with DIN IEC 38

In 2003 the tolerance for the valid 230 V AC / 400 V AC mains voltage was extended to $\pm 10\%$.

Weidmüller's power supplies fulfilled the DIN IEC 38 specifications even before they came into force.

In use all over the world

Power supplies from Weidmüller have internationally recognised approvals endorsing their suitability for use in widely varying applications all over the world. They are used in mechanical engineering, in industrial automation, in systems engineering and in the power supply industry, in production lines and in building technology.

Temperature range

The power loss constantly produced by the power supplies is converted into heat. This heat is dissipated via a heat sink and the surface of the housing. Depending on the module, Weidmüller power supplies are suitable for use in ambient temperatures up to 60 °C. The device to be installed is selected taking the prevailing ambient temperatures into consideration.

Compact designs

Due to their small footprint, Weidmüller's power supplies are also suitable for use in confined spaces. That saves space in electrical cabinets and reduces costs!

Standards and approvals

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Standard/Approval	Description
DIN EN 50178 DIN VDE 0160	Electronic equipment for use in power installations
DIN EN 61558	Safety of power transformers, power supply units and similar
DIN EN 60950 IEC 950 DIN VDE 0805	Safety of information technology equipment
DIN EN 60742 DIN VDE 0550 part 1	Specifications for small transformers
DIN VDE 0550 part 3	Particular requirements for isolating and control transformers
DIN VDE 0551	Specification for safety isolating transformers
DIN VDE 0106 part 101	Basic specifications for safe isolation in electrical equipment
DIN VDE 0113 part 1	Electrical equipment of machines
DIN IEC 68	Basic environmental test procedures
IEC 38	Supplementary notes relating to status of international standards and European harmonisation of mains voltages 230/400 V
DIN EN 61131-2	Programmable logic controllers – equipment requirements and tests
UL	Safety approval for the United States market
CSA	Safety approval for the Canadian market
GL	Test specifications for electrical/electronic devices and systems for use in marine technology
73/23/EC	Electrical equipment for use within specific voltage limits (Low Voltage Directive)
89/336/EC	Electromagnetic compatibility (EMC Directive)
98/37/EC	Safety of machines (directive covering mechanical equipment)

Switch-mode power supplies

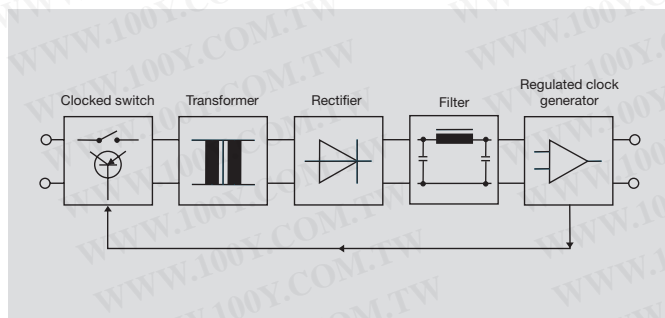


勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

Primary switch-mode power supplies connectPower

Thanks to the wide range of inputs (85 V AC to 265 V AC), the connectPower range of switch-mode power supplies is suitable for a wide variety of applications. The devices are interference-suppressed (in accordance with DIN EN 55022 Class B) and fulfil safety extra-low voltage (SELV) requirements.

Equipped with an electronic short-circuit feedback control on the output side, the primary switch-mode power supplies are rated between 12 W and 300 W. The power supplies are suitable for both industrial and building automation.



Method of operation

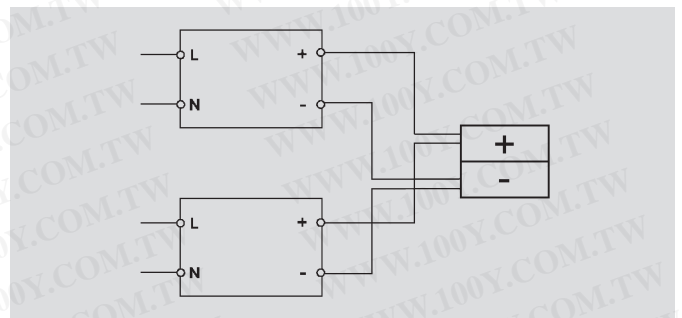
Primary switch-mode power supplies are distinguished by a high degree of efficiency and also by their compact dimensions and moderate generation of heat. The mains voltage is rectified directly. The rectified voltage is then chopped with a higher frequency than that of the mains frequency. A transformer – which can be quite small due to the high switching frequency – converts the voltage with the switching frequency to the required value.

The voltage is now rectified and smoothed by a filter. This regulator control itself is carried out by means of pulse-width modulation. The on and off times of the chopper transformers are regulated to ensure that the output voltage remains stable.

Power distribution and redundancy

To increase performance, or for redundancy purposes, switch-mode power supplies from Weidmüller can be connected in parallel. Two techniques are available: an active and a passive power distribution. Active power distribution requires more complex switching. The advantage is the exact power distribution and uniform device loading.

Requiring less sophisticated switching, passive power distribution results in lower costs, but also in a load-dependent characteristic curve and less exact power distribution. Before connecting in parallel, the output voltages of the devices must be adjusted exactly ($\pm 100 - 200$ mV).

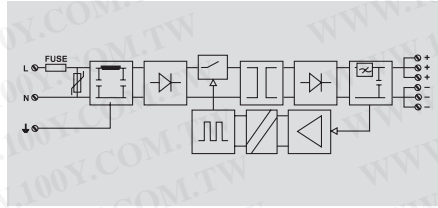
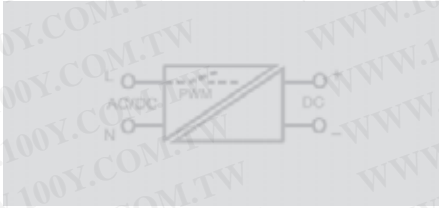


Power factor correction (PFC)

Power factor correction ensures that the mains current drawn is sinusoidal. One positive side-effect is the regulation of the power factor to approx. 1.

connectPower single phase
WAVEPOWER

CP SNT 12 W 24 V 0.5 A



Technical data

Input	
Input voltage	85...265 V AC, 120...300 V DC
Input current	260 mA @ 115 V AC; 180 mA @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	2 A slow-blow fuse (internal)
Overvoltage protection	Varistor
Output	
Output voltage	24 V DC
Output current	0.5 A
max. output power	12 W
max. residual ripple	0.1 %
Overload protection	Overvoltage / thermal cut-out
Overvoltage protection	Varistor
Mains failure bridge-over time	30 ms @ 115 V AC / 80 ms @ 230 V AC
Control at 10...100% load	0.6 %
Parallel connection option	no
Insulation coordination	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
General data	
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	80 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	IEC 61000-6 /-2, -3
Power factor correction	no
Approvals	CSA;UL;CE;
Screw connection	
Clamping range (rating- / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Length x width x height	mm 112.4 x 22.5 x 92.4
Note	

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Ordering data

Type	Qty.	Order No.
CP SNT 12W 24V 0.5A	1	9918840024
Note		

Accessories

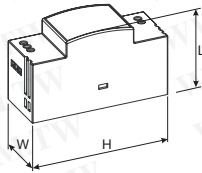
Note

Switch-mode power supplies

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

Power supply

connectPower single phase INSTAPOWER



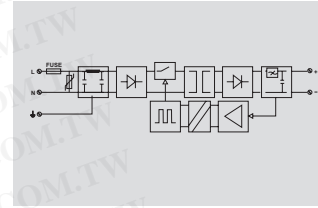
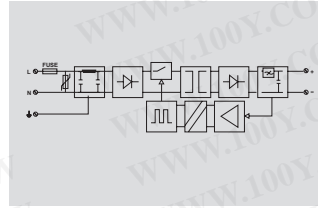
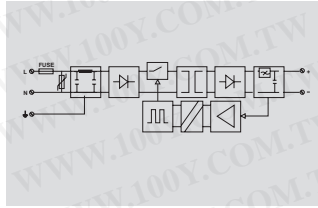
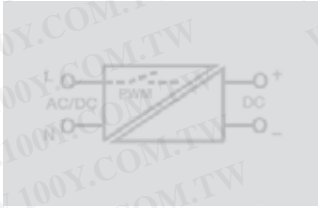
CP SNT 24 W 28 V 1 A



CP SNT 24 W 24 V 1 A



CP SNT 24 W 15 V 1.5 A



E

Technical data

Input

Input voltage
 Input current
 Input frequency
 Making current limit
 Input fuse
 Overvoltage protection

85...265 V AC, 120...300 V DC
 460 mA @ 115 V AC; 250 mA @ 230 V AC
 50/ 60 Hz
 Thermistor
 2 A slow-blow fuse (internal)
 Varistor

85...265 V AC, 120...300 V DC
 460 mA @ 115 V AC; 250 mA @ 230 V AC
 50/ 60 Hz
 Thermistor
 2 A slow-blow fuse (internal)
 Varistor

85...265 V AC, 120...300 V DC
 460 mA @ 115 V AC; 250 mA @ 230 V AC
 50/ 60 Hz
 Thermistor
 2 A slow-blow fuse (internal)
 Varistor

Output

Output voltage
 Output current
 max. output power
 max. residual ripple
 Overload protection
 Overvoltage protection
 Mains failure bridge-over time
 Control at 10...100% load
 max. capacitance at output

28 V DC
 1 A
 28 V
 < 2 %
 Overvoltage / thermal cut-out
 Varistor
 35 ms @ 115 V AC / 160 ms @ 230 V AC
 0.5 %
 8000 µF

24 V DC
 1 A
 24 W
 < 2 %
 Overvoltage / thermal cut-out
 Varistor
 35 ms @ 115 V AC / 160 ms @ 230 V AC
 0.5 %
 8000 µF

15 V DC
 1.5 A
 23 V
 < 2 %
 Overvoltage / thermal cut-out
 Varistor
 35 ms @ 115 V AC / 160 ms @ 230 V AC
 0.5 %
 8000 µF

Insulation coordination

Electrical isolation, output-earth
 Electrical isolation, input-earth
 Electrical isolation, input-output
 Electrical isolation, I/O rail

500 V RMS
 1.5 kV RMS
 3 kV RMS
 4 kV RMS

500 V RMS
 1.5 kV RMS
 3 kV RMS
 4 kV RMS

500 V RMS
 1.5 kV RMS
 3 kV RMS
 4 kV RMS

General data

Operating temperature
 Storage temperature
 Degree of efficiency at max. load
 Standards
 Approvals
 EMC standards

-20 °C...+50 °C
 -40 °C...+85 °C
 78 %
 EN 50178, EN 60950, IEC950
 CSA / CE / cULus
 EN 61000-6 /-2, -3

-20 °C...+50 °C
 -40 °C...+85 °C
 78 %
 EN 50178, EN 60950, IEC950
 CSA / CE / cULus
 EN 61000-6 /-2, -3

-20 °C...+50 °C
 -40 °C...+85 °C
 78 %
 EN 50178, EN 60950, IEC950
 CSA / CE / cULus
 EN 61000-6 /-2, -3

Clamping range (rating- / min. / max.) mm²
 Length x width x height mm

Screw connection
 4.0 / 0.1 / 4
 62.5 x 52 x 90.5
 Derating: 33% @ 60°C

Screw connection
 4.0 / 0.1 / 4
 62.5 x 52 x 90.5
 Derating: 33% @ 60°C

Screw connection
 4.0 / 0.1 / 4
 62.5 x 52 x 90.5
 Derating: 33% @ 60°C

Ordering data

Type	(Qty.=1)	Order No.
CP SNT 24W 28V 1A		9928890028

Type	(Qty.=1)	Order No.
CP SNT 24W 24V 1A		9928890024

Type	(Qty.=1)	Order No.
CP SNT 24W 15V 1.5A		9928890015

Note

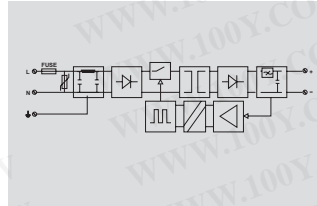
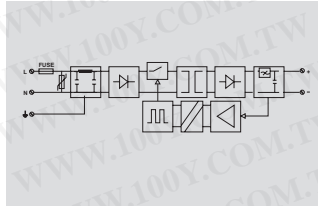
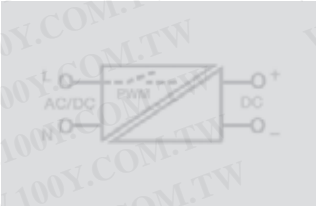
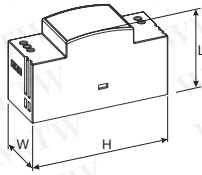
Accessories

Note

connectPower single phase
INSTAPOWVER

CP SNT 24 W 12 V 1.5 A

CP SNT 24 W 5 V 2 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Technical data

Input	
Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Overvoltage protection	Varistor
Output	
Output voltage	12 V DC
Output current	1.5 A
max. output power	18 W
max. residual ripple	< 2 %
Overload protection	Overvoltage / thermal cut-out
Overvoltage protection	Varistor
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF
Insulation coordination	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
General data	
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3
Screw connection	
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4
Length x width x height	62.5 x 52 x 90.5
Note	Derating: 33% @ 60°C

Input	
Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Overvoltage protection	Varistor
Output	
Output voltage	5 V DC
Output current	2 A
max. output power	10 W
max. residual ripple	< 2 %
Overload protection	Overvoltage / thermal cut-out
Overvoltage protection	Varistor
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF
Insulation coordination	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
General data	
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3
Screw connection	
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4
Length x width x height	62.5 x 52 x 90.5
Note	Derating: 33% @ 60°C

Input	
Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Overvoltage protection	Varistor
Output	
Output voltage	5 V DC
Output current	2 A
max. output power	10 W
max. residual ripple	< 2 %
Overload protection	Overvoltage / thermal cut-out
Overvoltage protection	Varistor
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF
Insulation coordination	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
General data	
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3
Screw connection	
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4
Length x width x height	62.5 x 52 x 90.5
Note	Derating: 33% @ 60°C

Ordering data

Type	(Qty.=1)	Order No.
CP SNT 24W 12V 1.5A		9928890012

Type	(Qty.=1)	Order No.
CP SNT 24W 5V 2A		9928890005

Note

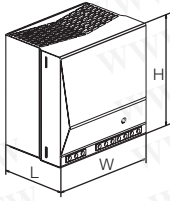
Accessories

Note

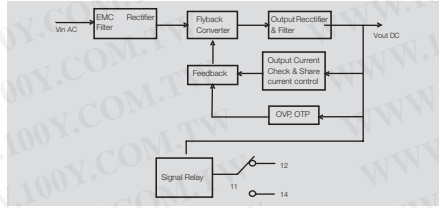
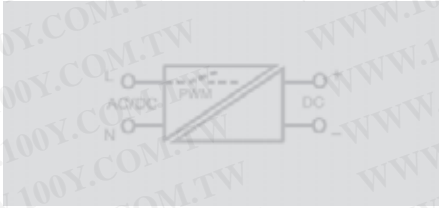
Switch-mode power supplies

connectPower single phase
ECOLINE

CP SNT 70 W 24 V 3 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw



E

Technical data

Input	85...264 V AC / 110...370 V DC
Input voltage	2 A @ 100...240 V AC
Input current	50/ 60 Hz
Input frequency	Fusible link 2.5 A (T) / 250 V
Input fuse	Varistor
Overvoltage protection	
Output	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	3 A
max. output power	72 W
max. residual ripple	< 100 mV _{SS} / bandwidth 20 MHz
Overload protection	105%...130% I _{konst} of max. output power, automatic restart
Overvoltage protection	29...34 V
Mains failure bridge-over time	10 ms @ 115 V AC / 20 ms @ 230 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
Insulation coordination	
Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC
General data	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	80 %
Status indication	green LED
Standards	EN 60204 (PELV) ; EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	0,55 kg
Approvals	CE / cULus 508 / cULus 60950

Screw connection	
Clamping range (rating- / min. / max.)	2,5 / 0,1 / 4
Length x width x height	110 x 55,5 x 125

Note
 For redundant operation or for maintaining fault signalling function - operate with diode module only.

Ordering data

Type	Qty.	Order No.
CP SNT 70W 24V 3A	1	8708660000

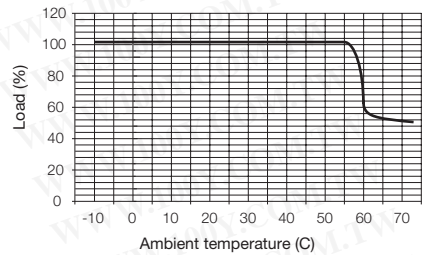
Note

Accessories

Note

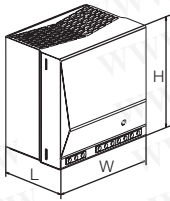
Derating curve

Output load/ambient temperature

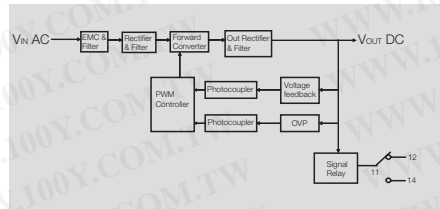
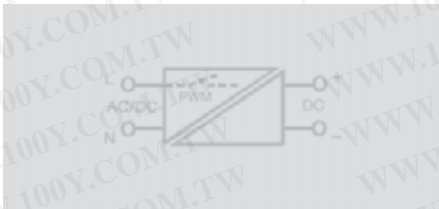


connectPower single phase
ECOLINE

CP SNT 120 W 24 V 5 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



Technical data

Input	
Input voltage	88...132 V AC/176...264 V AC selectable; 250...370 V DC
Input current	3 A @ 115 V AC / 2 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	Fusible link 4 A (T) / 250 V
Overvoltage protection	Varistor
Output	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	5 A
max. output power	120 W
max. residual ripple	< 100 mV _{ss} / bandwidth 20 MHz
Overload protection	105%...130% I _{konst} of max. output power, automatic restart
Overvoltage protection	29...34 V
Mains failure bridge-over time	20 ms @ 115 V AC / 20 ms @ 230 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
Insulation coordination	
Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC
General data	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	84 %
Status indication	green LED
Standards	EN 60204 (PELV) ;EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	0,65 kg
Approvals	CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.)	mm ²	2,5 / 0,1 / 4
Length x width x height	mm	110 x 65,5 x 125

Note
 For redundant operation or for maintaining fault signalling function - operate with diode module only.

Ordering data

Type	Qty.	Order No.
CP SNT 120W 24V 5A	1	8708670000

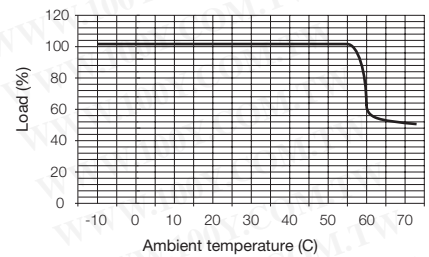
Note

Accessories

Note

Derating curve

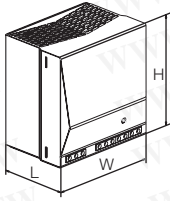
Output load/ambient temperature



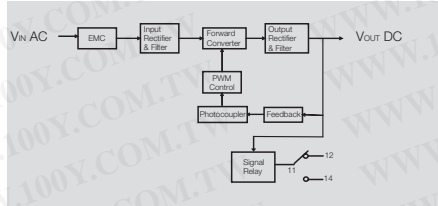
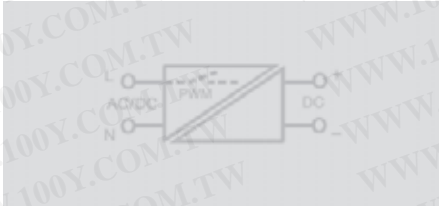
Switch-mode power supplies

connectPower single phase
ECOLINE

CP SNT 250 W 24 V 10 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



E

Technical data

Input

Input voltage 88...132 V AC/176...264 V AC selectable; 250...370 V DC
 Input current 3.6 A @ 115 V AC / 2 A @ 230 V AC
 Input frequency 50/ 60 Hz
 Input fuse Fusible link 5 A (T) / 250 V
 Overvoltage protection Varistor

Output

Output voltage 24...28 V DC (adjustable via potentiometer)
 Output current 10 A
 max. output power 240 W
 max. residual ripple < 100 mV_{ss} / bandwidth 20 MHz
 Overload protection 105%...130% I_{konst} of max. output power, automatic restart
 Overvoltage protection 30...36 V
 Mains failure bridge-over time 10 ms @ 115 V AC / 15 ms @ 230 V AC
 Control at 10...100% load < 2 %
 Parallel connection option recommended with diode module
 Status relay / Change-over contact 250 V AC (max. 30 V DC) / 1 A

Insulation coordination

Electrical isolation, output-earth 0,5 kV AC
 Electrical isolation, input-earth 1,5 kV AC
 Electrical isolation, input-output 3 kV AC

General data

Operating temperature -10 °C...+55 °C
 Storage temperature -20 °C...+85 °C
 Degree of efficiency at max. load 84 %
 Status indication green LED
 Standards EN 60204 (PELV) ;EN 60950 (SELV)
 EMC standards EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
 Mounting position horizontal on mounting rail TS 35
 Installation advice Clearance: above/below ≥ 3 cm
 Weight 1.6 kg
 Approvals CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.) mm²

Length x width x height mm

Note

Screw connection

4.0 / 0.1 / 6

110 x 125.5 x 125

For redundant operation or for maintaining fault signalling function - operate with diode module only.

Ordering data

Type	Qty.	Order No.
CP SNT 250W 24V 10A	1	8708680000

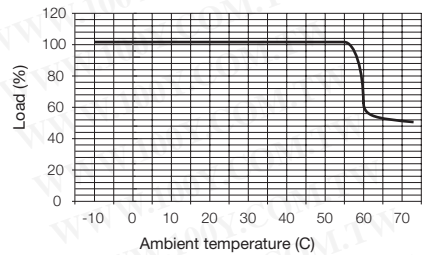
Note

Accessories

Note

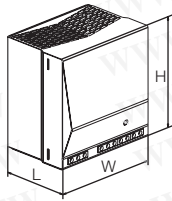
Derating curve

Output load/ambient temperature

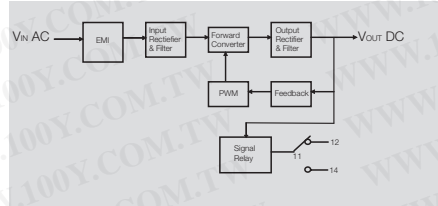
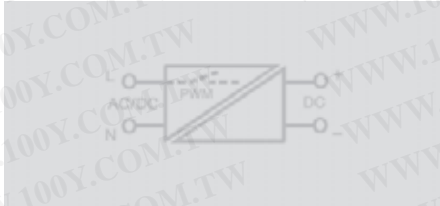


connectPower single phase
ECOLINE

CP SNT 500 W 24 V 20 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



Technical data

Input	
Input voltage	88...132 V AC/176...264 V AC selectable; 250...370 V DC
Input current	9 A @ 115 V AC / 6 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	Fusible link 10 A (T) / 250 V
Overvoltage protection	Varistor
Output	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	20 A
max. output power	480 W
max. residual ripple	< 100 mV _{SS} / bandwidth 20 MHz
Overload protection	105%...130% I _{konst} of max. output power, automatic restart
Overvoltage protection	30...36 V
Mains failure bridge-over time	10 ms @ 115 V AC / 15 ms @ 230 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
Insulation coordination	
Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC
General data	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	86 %
Status indication	green LED
Standards	EN 60950 (SELV) ; EN 60204 (PELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	2 kg
Approvals	CE / cULus 508 / cULus 60950

Screw connection	
Clamping range (rating- / min. / max.)	4,0 / 0,1 / 6 mm ²
Length x width x height	110 x 227,5 x 125 mm

Note
 For redundant operation or for maintaining fault signalling function - operate with diode module only.

Ordering data

Type	Qty.	Order No.
CP SNT 500W 24V 20A	1	8778870000

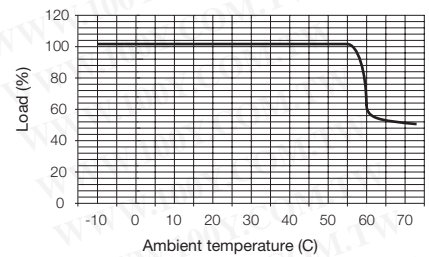
Note

Accessories

Note

Derating curve

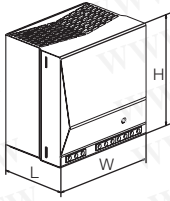
Output load/ambient temperature



Switch-mode power supplies

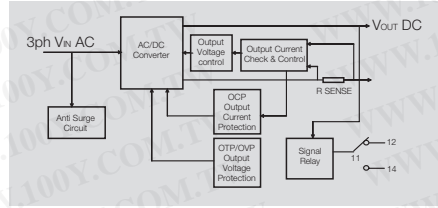
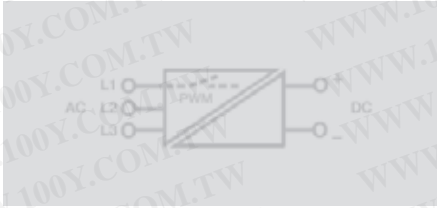
connectPower 3-phase
ECOLINE

CP SNT3 250 W 24 V 10 A



n

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



E

Technical data

Input

Input voltage	3x400 V AC / 340...575 V AC
Input current	0.95 A @ 400 V AC
Input frequency	47...63 Hz
Input fuse	External via 3 circuit-breakers up to 6 A, char. C
Overvoltage protection	Varistor

Output

Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	10 A
max. output power	250 W
max. residual ripple	< 100 mV _{ss} / bandwidth 20 MHz
Overload protection	105%...130% I _{konst} of max. output power, automatic restart
Overvoltage protection	29...34 V
Mains failure bridge-over time	> 10 ms @ 400 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A

Insulation coordination

Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC

General data

Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	88 %
Status indication	green LED
Standards	EN 60204 (PELV) ; EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	1,5 kg
Approvals	CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.)

mm²

Length x width x height

mm

Note

For redundancy or correct function of the signal relays use a diode modul

Ordering data

Type	Qty.	Order No.
CP SNT3 250W 24V 10A	1	8708700000

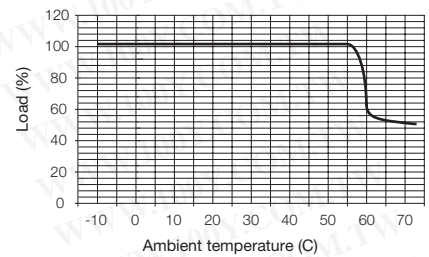
Note

Accessories

Note

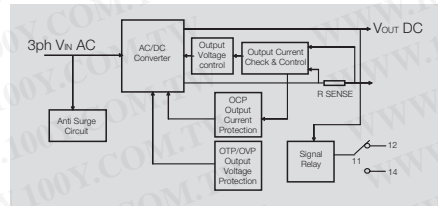
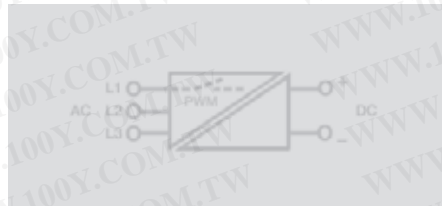
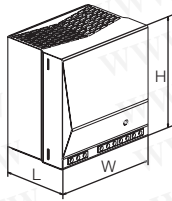
Derating curve

Output load/ambient temperature



connectPower 3-phase
ECOLINE

CP SNT3 500 W 24 V 20 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787

[Http://www.100y.com.tw](http://www.100y.com.tw)

Technical data

Input

Input voltage	3x400 V AC / 340...575 V AC
Input current	1.7 A @ 400 V AC
Input frequency	47...63 Hz
Input fuse	External via 3 circuit-breakers up to 6...16 A, char. C
Overvoltage protection	Varistor

Output

Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	20 A
max. output power	480 W
max. residual ripple	< 100 mV _{ss} / bandwidth 20 MHz
Overload protection	105%...130% I _{konst} of max. output power, automatic restart
Overvoltage protection	29...34 V
Mains failure bridge-over time	> 10 ms @ 400 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A

Insulation coordination

Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC

General data

Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	88 %
Status indication	green LED
Standards	EN 60204 (PELV) ; EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	3 kg
Approvals	CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.)	mm ²	4,0 / 0,1 / 6
Length x width x height	mm	110 x 227,5 x 125

Note

For redundancy or correct function of the signal relays use a diode modul

Ordering data

Type	Qty.	Order No.
CP SNT3 500W 24V 20A	1	8708710000

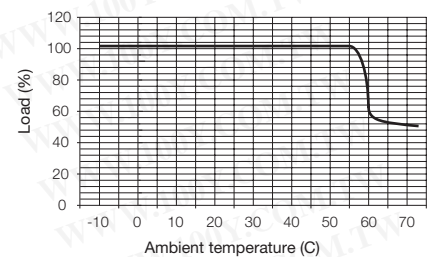
Note

Accessories

Note

Derating curve

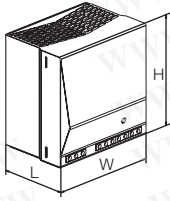
Output load/ambient temperature



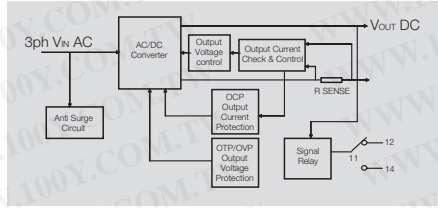
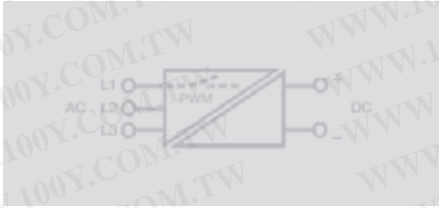
Switch-mode power supplies

connectPower 3-phase
ECOLINE

CP SNT3 1000 W 24 V 40 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



E

Technical data

Input	
Input voltage	3x400 V AC / 340...575 V AC (450...800 V DC)
Input current	3.4 A @ 400 V AC
Input frequency	47...63 Hz
Input fuse	External via 3 circuit-breakers up to 10...16 A, char. C
Overvoltage protection	Varistor
Output	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	40 A
max. output power	960 W
max. residual ripple	< 100 mV _{ss} / bandwidth 20 MHz
Overload protection	105%...130% I _{konst} of max. output power, automatic restart
Overvoltage protection	29...34 V
Mains failure bridge-over time	> 10 ms @ 400 V AC
Control at 10...100% load	< 2 %
Parallel connection option	direct for same type
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
Insulation coordination	
Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC
General data	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	88 %
Status indication	green LED
Standards	EN 60204 (PELV) ; EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	3,5 kg
Approvals	CE / cULus 508 / cULus 60950

Screw connection	
Clamping range Input (rating-/min./max)	4 / 0.1 / 6 mm ²
Clamping range Output (rating-/ min./max)	10 / 0.3 / 16 mm ²
Length x width x height	125 x 280 x 150 mm
Note	Clamping range identical for input and signalling contact

Ordering data

Type	Qty.	Order No.
CP SNT3 1000W 24V 40A	1	8708730000

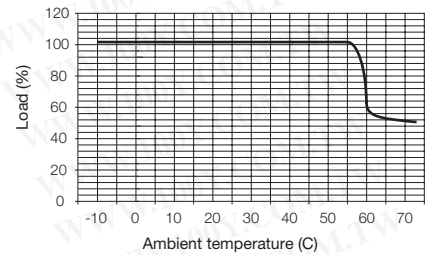
Note

Accessories

Note

Derating curve

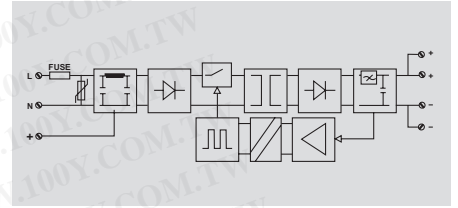
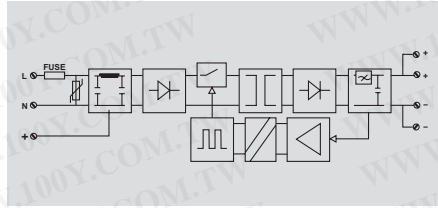
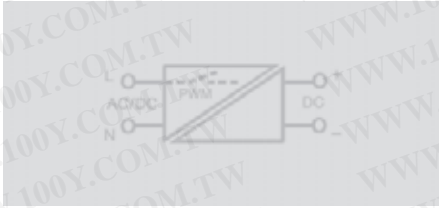
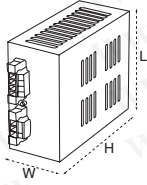
Output load/ambient temperature



connectPower single phase

CP SNT 55 W 48 V 1.04 A

CP SNT 55 W 24-28 V 2.3 A



Technical data

Input	
Input voltage	85...265 V AC, 120...300 V DC
Input current	1.1 A @ 115 V AC; 0.55 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	2 A slow-blow fuse (internal)
Overvoltage protection	Varistor
Output	
Output voltage	48 V DC
Output current	1.04 A
max. output power	50 W
max. residual ripple	< 50 mV RMS
Overload protection	Overvoltage / thermal cut-out
Overvoltage protection	Varistor
Mains failure bridge-over time	30 ms @ 115 V AC / 180 ms @ 230 V AC
Control at 10...100% load	1%
Parallel connection option	no
Insulation coordination	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
General data	
Operating temperature/Storage temperature	-20 °C...+40 °C / -40 °C...+85 °C
Degree of efficiency at max. load	78 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	IEC 61000-6 /-2, -3
Power factor correction	no
Approvals	CSA;UL/UR;CE;
Screw connection	
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4 mm ²
Length x width x height	131 x 57 x 98 mm
Note	
Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C	

Input		
Input voltage	85...265 V AC, 120...300 V DC	
Input current	1.1 A @ 115 V AC; 0.55 A @ 230 V AC	
Input frequency	50/ 60 Hz	
Input fuse	2 A slow-blow fuse (internal)	
Overvoltage protection	Varistor	
Output		
Output voltage	24...28 V DC	
Output current	2.3 A	
max. output power	55 W	
max. residual ripple	< 50 mV RMS	
Overload protection	Overvoltage / thermal cut-out	
Overvoltage protection	Varistor	
Mains failure bridge-over time	30 ms @ 115 V AC / 180 ms @ 230 V AC	
Control at 10...100% load	1%	
Parallel connection option	no	
Insulation coordination		
Electrical isolation, output-earth	500 V RMS	
Electrical isolation, input-earth	1.5 kV RMS	
Electrical isolation, input-output	3 kV RMS	
Electrical isolation, I/O rail	3 kV RMS	
General data		
Operating temperature/Storage temperature	-20 °C...+40 °C / -40 °C...+85 °C	
Degree of efficiency at max. load	78 %	
Status indication	green LED	
Standards	EN 50178, EN 60950, IEC950	
EMC standards	IEC 61000-6 /-2, -3	
Power factor correction	no	
Approvals	CSA;UL/UR;CE;cURus;cCSAus;UL/LIST	
Screw connection		
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4 mm ²	
Length x width x height	131 x 57 x 98 mm	
Note		
Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C		

Input		
Input voltage	85...265 V AC, 120...300 V DC	
Input current	1.1 A @ 115 V AC; 0.55 A @ 230 V AC	
Input frequency	50/ 60 Hz	
Input fuse	2 A slow-blow fuse (internal)	
Overvoltage protection	Varistor	
Output		
Output voltage	24...28 V DC	
Output current	2.3 A	
max. output power	55 W	
max. residual ripple	< 50 mV RMS	
Overload protection	Overvoltage / thermal cut-out	
Overvoltage protection	Varistor	
Mains failure bridge-over time	30 ms @ 115 V AC / 180 ms @ 230 V AC	
Control at 10...100% load	1%	
Parallel connection option	no	
Insulation coordination		
Electrical isolation, output-earth	500 V RMS	
Electrical isolation, input-earth	1.5 kV RMS	
Electrical isolation, input-output	3 kV RMS	
Electrical isolation, I/O rail	3 kV RMS	
General data		
Operating temperature/Storage temperature	-20 °C...+40 °C / -40 °C...+85 °C	
Degree of efficiency at max. load	78 %	
Status indication	green LED	
Standards	EN 50178, EN 60950, IEC950	
EMC standards	IEC 61000-6 /-2, -3	
Power factor correction	no	
Approvals	CSA;UL/UR;CE;cURus;cCSAus;UL/LIST	
Screw connection		
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4 mm ²	
Length x width x height	131 x 57 x 98 mm	
Note		
Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C		

Ordering data

Type	Qty.	Order No.
CP SNT 55W 48V 1.04A	1	9927480048

Type	Qty.	Order No.
CP SNT 55W 24-28V 2.3A	1	9927480024

Note

Accessories

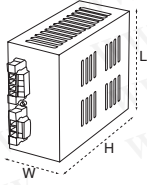
Note

Bracket for wall mounting: 7920560000

Bracket for wall mounting: 7920560000

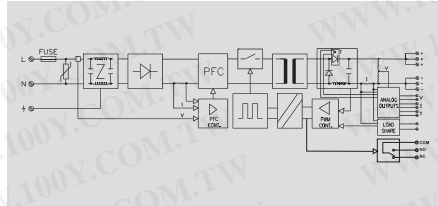
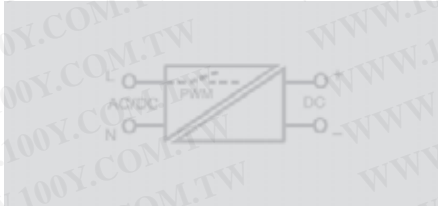
connectPower single phase

CP SNT 300 W 24 V 12.5 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787

[Http://www.100y.com.tw](http://www.100y.com.tw)



Technical data

Input

Input voltage	86...265 V AC, 100...200 V DC; typ 115...230 V AC
Input current	3.3 A @ 115 V AC; 1.65 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	Thermistor
Overvoltage protection	Varistor

Output

Output voltage	Adjustable, 22-28 V DC
Output current	12.5 A
max. output power	300 W
max. residual ripple	at 100 kHz: 2 mV _{SS} ; at 120 Hz: 20 mV AC RMS
Overload protection	Overcurrent and overvoltage protection
Overvoltage protection	Varistor
Mains failure bridge-over time	40 ms @ 115 V AC / 40 ms @ 230 V AC
Control at 10...100% load	0.2 %
Parallel connection option	Yes, max. 5 devices, active current splitting
Signalling delay	2 s
Monitoring function	Output voltage, current, temperature

Insulation coordination

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS

General data

Operating temperature/Storage temperature	-15°C...+50°C (at 100% duty cycle) / -40 °C...+85 °C
Degree of efficiency at max. load	80 %
Status indication	Current limiting: yellow LED / Error: red LED / On: green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction	PFC passive
Derating	Derating: 20% @ 60°C
Approvals	CSA;UL;UR;CE;

Clamping range (rating- / min. / max.)	mm ²	4.0 / 0.1 / 4
--	-----------------	---------------

Length x width x height	mm	101 x 240 x 155
-------------------------	----	-----------------

Note

Ordering data

Type	Qty.	Order No.
CP SNT 300W 24V 12.5A	1	9916250024

Note

Accessories

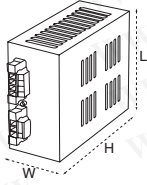
Note

Bracket for wall mounting: 7920560000

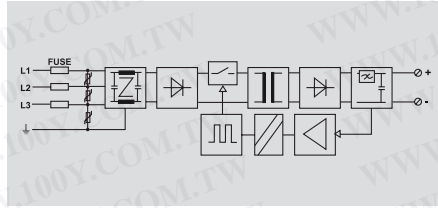
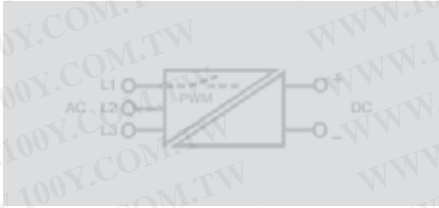
Switch-mode power supplies

connectPower 3-phase

CP-SNT 380-480 V AC/24 V



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



E

Technical data

Input

Input voltage	306... 550 V AC, typ.: 360...480 V AC
Input current	120 mA @ 360 V AC; 100 mA @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	3 x 1 A slow-blow fuse (internal)
Overvoltage protection	Varistor

Output

Output voltage	24 V DC
Output current	2.3 A
max. output power	55 W
max. residual ripple	< 50 mV RMS
Overload protection	Overvoltage / thermal cut-out
Overvoltage protection	Varistor
Mains failure bridge-over time	120 ms @ 360 V AC / 120 ms @ 480 V AC
Control at 10...100% load	1%
Parallel connection option	no
Overload protection	Overvoltage / thermal cut-out

Insulation coordination

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS

General data

Operating temperature	0 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction	no
Approvals	CSA;ULUR;CE;

Clamping range (rating- / min. / max.)

mm²

Length x width x height

mm

Note

Screw connection

4,0 / 0.1 / 4

168 x 60 x 108

Derating: 10% @ 85°C

Ordering data

Type	Qty.	Order No.
CP-SNT 380-480VAC/24V	1	9917790324

Note

Accessories

Note

Diode modules



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

Power supply to critical loads

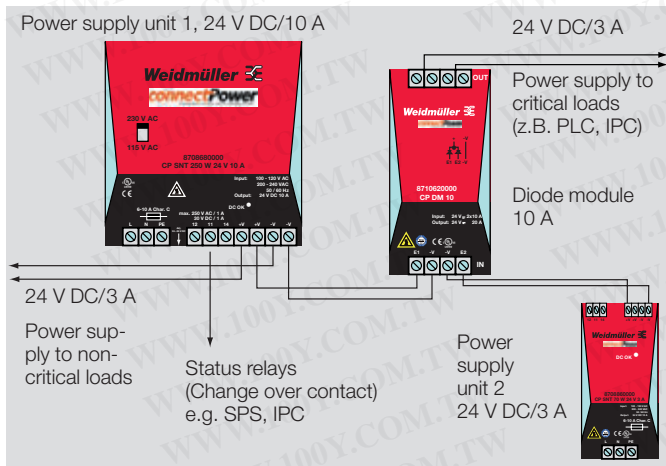
As a rule, actuators require relative high amounts of current, and a modern power supply concept should envisage supplying them separately. It is also recommended that a second power supply unit with lower output be used to supply the controls (for example, PLC, IPC). Together with a diode module, doubling up guarantees that the controls are constantly supplied with power should one of the devices fail; thus ensuring that no data is lost.

Redundant circuit for fail-safe power supply to loads

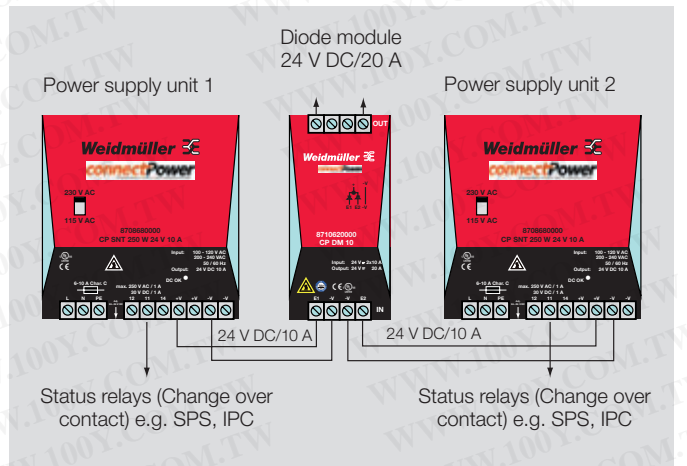
Both devices operate in parallel and share the load required by the equipment via the diode module. Should one of these devices fail, the second device immediately supplies the full amount of power. The diode module decouples both switch-mode power supplies to 100 %, so that they do not negatively affect each other if a failure occurs.

E

Power supply to critical loads



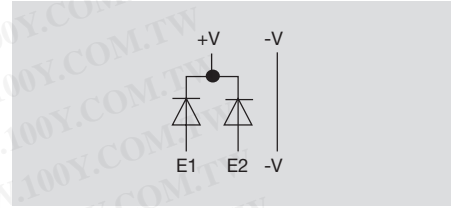
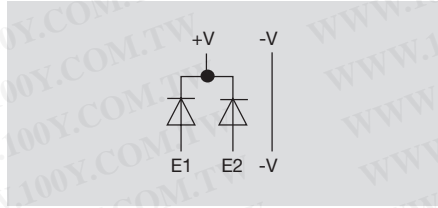
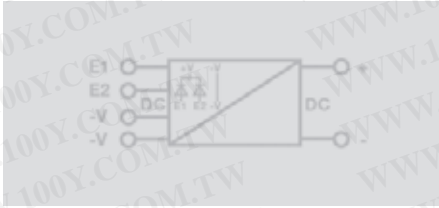
Redundant circuit for fail-safe power supply to loads



connectPower diode module
 ECOLINE

CP DM 10

CP DM 20



Technical data

Input	
Input voltage	40 V DC max.
Input current	2 x 0 ... 10 A max.
Output	
Output voltage	Vin - 0.5 typical
Output current	0 ... 20 A max. or 10 A max. in redundancy mode
General specifications	
Operating temperature	0 °C ... 50 °C
Storage temperature	-20 °C ... +85 °C
Efficiency under max. load	approx. 95.5 % at 24 V DC
DIN rail mounting	TS35 top-hat rail to DIN EN 50022
Mounting position	Horizontal rail
Mounting	Clearance: side ≥ 4 cm; above/below ≥ 10 cm
Weight	approx. 0.15 kg
Approvals	CE

Input	
Input voltage	40 V DC max.
Input current	2 x 0 ... 10 A max.
Output	
Output voltage	Vin - 0.5 typical
Output current	0 ... 20 A max. or 10 A max. in redundancy mode
General specifications	
Operating temperature	0 °C ... 50 °C
Storage temperature	-20 °C ... +85 °C
Efficiency under max. load	approx. 95.5 % at 24 V DC
DIN rail mounting	TS35 top-hat rail to DIN EN 50022
Mounting position	Horizontal rail
Mounting	Clearance: side ≥ 4 cm; above/below ≥ 10 cm
Weight	approx. 0.15 kg
Approvals	CE

Input	
Input voltage	40 V DC max.
Input current	2 x 0 ... 20 A max.
Output	
Output voltage	Vin - 0.5 typical
Output current	0 ... 40 A max. or 20 A max. in redundancy mode
General specifications	
Operating temperature	0 °C ... 50 °C
Storage temperature	-20 °C ... +85 °C
Efficiency under max. load	approx. 97.5 % at 24 V DC
DIN rail mounting	TS35 top-hat rail to DIN EN 50022
Mounting position	Horizontal rail
Mounting	Clearance: side ≥ 4 cm; above/below ≥ 10 cm
Weight	approx. 0.6 kg
Approvals	CE

Input clamping range (nom. / min. / max.)	mm ²	4 / 0.13 / 4
Output clamping range (nom. / min. / max.)	mm ²	10.0 / 0.32 / 16.0
Length x width x height	mm	125.0 x 55.5 x 100.0
Note		
* Clamping range identical for input/output		

Screw connection		
Input clamping range (nom. / min. / max.)	mm ²	4 / 0.13 / 4
Output clamping range (nom. / min. / max.)	mm ²	10.0 / 0.32 / 16.0
Length x width x height	mm	142.0 x 55.5 x 100.0
Note		
* Clamping range identical for input/output		

Screw connection		
Input clamping range (nom. / min. / max.)	mm ²	4 / 0.13 / 4
Output clamping range (nom. / min. / max.)	mm ²	10.0 / 0.32 / 16.0
Length x width x height	mm	142.0 x 55.5 x 100.0
Note		
* Clamping range identical for input/output		

Ordering data

Type	Qty	Order No.
CP DM 10	1	8710620000

Type	Qty	Order No.
CP DM 20	1	8768650000

Type	Qty	Order No.
CP DM 20	1	8768650000

Note

Accessories

Note

Note

Note

DC/DC converters



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

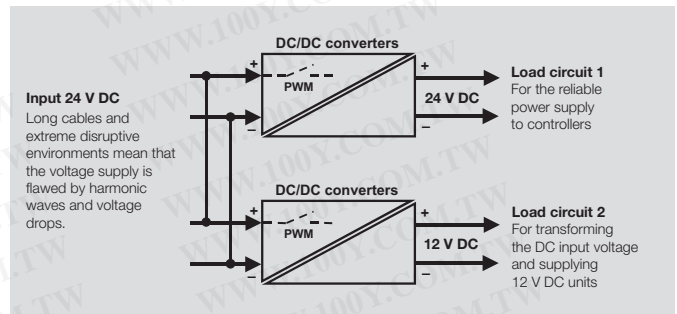
If there is no regulated and stable DC voltage available to supply sensitive equipment, DC/DC converters can guarantee a stabilised voltage. To a certain extent, other voltage levels are generated at the output; consequently, DC/DC converters can also be utilised for converting to other voltage levels. Electrical isolation of the input and output ensures reliable and safe separation of the circuits. The status of the output is reliably indicated by means of a status LED.

DC/DC converters

DC/DC converters are particularly suitable for decentralised power supplies to circuitry, subassemblies and modules. DC/DC converters are often required in emergency power supplies supplying electrical devices from batteries and other DC systems.

DC/DC converters for supplying sensitive loads for example, PLCs, mini controllers etc.

Power supply to loads with different voltage levels

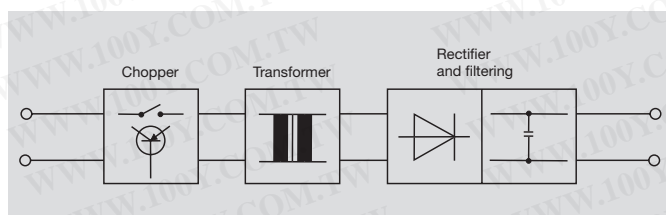


勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

It is possible to supply both sides of an analogue coupling module with the help of a DC/DC converter without neutralising the electrical isolation. Weidmüller's DC/DC converters are available in housings suitable for mounting on DIN rails.

Method of operation

DC/DC converters are a variation on switched-mode regulators. The DC current at the input is chopped with the switching frequency and brought up to the required voltage by a transformer. The voltage is then rectified, smoothed and regulated.



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

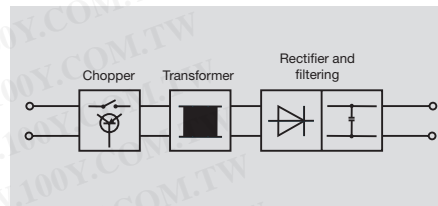
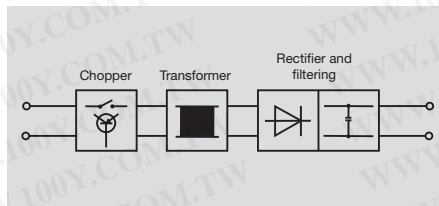
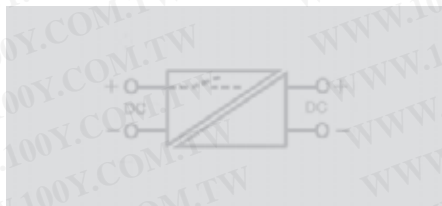
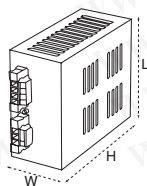
DC/DC converter

Power supply

connectPower

CP DCDC 50 W 22-24 V DC 2 A

CP DCDC 50 W 15 V DC 3 A



E

Technical data

Input	CP DCDC 50 W 22-24 V DC 2 A	CP DCDC 50 W 15 V DC 3 A
Input voltage	18...30 V DC, typ. 24 V DC	18...30 V DC, typ. 24 V DC
Input fuse	internal	internal
Output		
Output voltage	22...24 V DC	15 V DC
Output current	2 A	3 A
Overload behaviour	Overvoltage cut-out with self-reset	Overvoltage cut-out with self-reset
General data		
Operating temperature	0 °C...+40 °C max. full rate load	0 °C...+40 °C max. full rate load
Storage temperature	-40 °C...+85 °C	-40 °C...+85 °C
Status indication	green LED	green LED
Switching frequency	200.0 kHz	200.0 kHz
Approvals	CSA / UL/UR / CE	CSA / UL/UR / CE

	Screw connection	Screw connection
Clamping range (rating- / min. / max.)	mm ² 4.0 / 0.1 / 4	4.0 / 0.1 / 4
Length x width x height	mm 131 x 57 x 98	131 x 57 x 98
Note		

Ordering data

Connection system	Type	Qty.	Order No.
Screw connection	CP DCDC 50W 22-24V 2A	1	9919372424
Note			

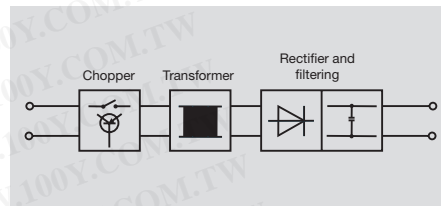
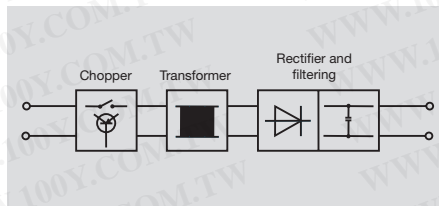
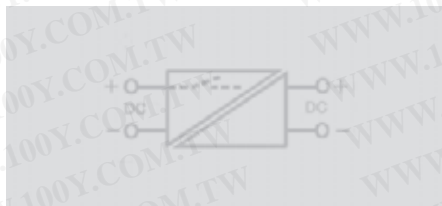
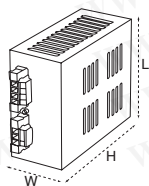
Accessories

Note	Bracket for wall mounting: 7920560000	Bracket for wall mounting: 7920560000
-------------	---------------------------------------	---------------------------------------

connectPower

CP DCDC 50 W 12 V DC 3 A

CP DCDC 50 W 5 V DC 8 A



Technical data

Input	CP DCDC 50 W 12 V DC 3 A	CP DCDC 50 W 5 V DC 8 A
Input voltage	9...16 V DC, type 12 V DC	9...16 V DC, type 12 V DC
Input fuse	internal	internal
Output		
Output voltage	12 V DC	5 V DC
Output current	3 A	8 A
Overload behaviour	Overvoltage cut-out with self-reset	Overvoltage cut-out with self-reset
General data		
Operating temperature	0 °C...+40 °C max. full rate load	0 °C...+40 °C max. full rate load
Storage temperature	-40 °C...+85 °C	-40 °C...+85 °C
Status indication	green LED	green LED
Switching frequency	200.0 kHz	200.0 kHz
Approvals	CSA / UL/UR / CE	CSA / UL/UR / CE

	Screw connection	Screw connection
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4	4.0 / 0.1 / 4
Length x width x height	131 x 57 x 98	131 x 57 x 98
Note		

Ordering data

Connection system	Type	Qty.	Order No.	Type	Qty.	Order No.
Screw connection	CP DCDC 50W 12V 3A	1	9919371212	CP DCDC 50W 5V 8A	1	9919371205
Note						

Accessories

Note	Bracket for wall mounting: 7920560000	Bracket for wall mounting: 7920560000
-------------	---------------------------------------	---------------------------------------

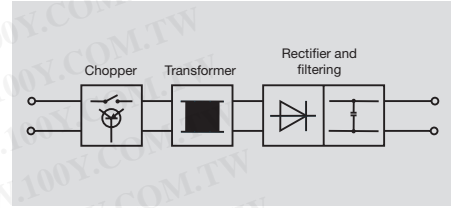
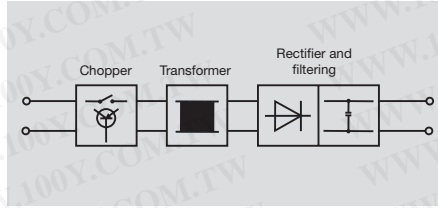
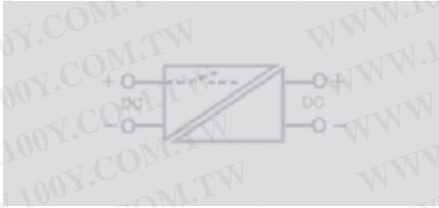
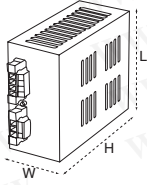
DC/DC converter

Power supply

connectPower

CP DCDC 50 W 22-24 V DC 2 A

CP DCDC 50 W 15 V DC 3 A



E

Technical data

Input

Input voltage
 Input fuse

Output

Output voltage
 Output current
 Overload behaviour

General data

Operating temperature
 Storage temperature
 Status indication
 Switching frequency
 Approvals

9...16 V DC, type 12 V DC
 internal
 22...24 V DC
 2 A
 Overvoltage cut-out with self-reset

0 °C...+40 °C max. full rate load
 -40 °C...+85 °C
 green LED
 200.0 kHz
 CSA / UL/UR / CE

9...16 V DC, type 12 V DC
 internal
 15 V DC
 3 A
 Overvoltage cut-out with self-reset

0 °C...+40 °C max. full rate load
 -40 °C...+85 °C
 green LED
 200.0 kHz
 CSA / UL/UR / CE

Clamping range (rating- / min. / max.)
 Length x width x height

mm²
 mm

Screw connection

4.0 / 0.1 / 4
 131 x 57 x 98

Screw connection

4.0 / 0.1 / 4
 131 x 57 x 98

Note

Ordering data

Connection system

Screw connection

Type	Qty.	Order No.
CP DCDC 50W 22-24V 2A	1	9919371224

Type	Qty.	Order No.
CP DCDC 50W 15V 3A	1	9919371215

Note

Accessories

Note

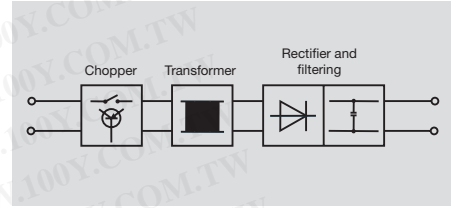
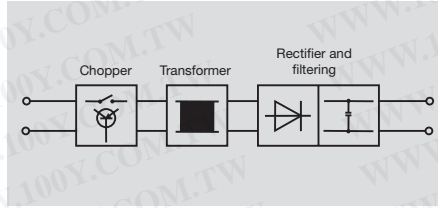
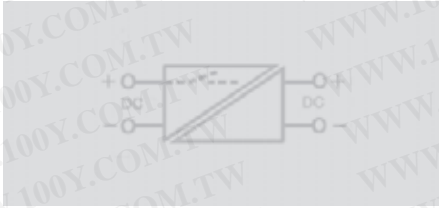
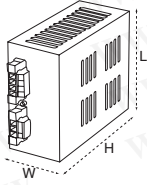
Bracket for wall mounting: 7920560000

Bracket for wall mounting: 7920560000

connectPower

CP DCDC 50 W 12 V DC 3 A

CP DCDC 50 W 5 V DC 8 A



Technical data

Input	
Input voltage	18...30 V DC, typ. 24 V DC
Input fuse	internal
Output	
Output voltage	12 V DC
Output current	3 A
Overload behaviour	Overvoltage cut-out with self-reset
General data	
Operating temperature	0 °C...+40 °C max. full rate load
Storage temperature	-40 °C...+85 °C
Status indication	green LED
Switching frequency	200.0 kHz
Approvals	CSA / UL/UR / CE

Screw connection	
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4
Length x width x height	131 x 57 x 98
Note	

Screw connection	
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4
Length x width x height	131 x 57 x 98
Note	

Clamping range (rating- / min. / max.)	
mm ²	4.0 / 0.1 / 4
Length x width x height	
mm	131 x 57 x 98
Note	

Screw connection	
mm ²	4.0 / 0.1 / 4
Length x width x height	
mm	131 x 57 x 98
Note	

Screw connection	
mm ²	4.0 / 0.1 / 4
Length x width x height	
mm	131 x 57 x 98
Note	

Ordering data

Connection system	
Screw connection	
Note	

Type	Qty.	Order No.
CP DCDC 50W 12V 3A	1	9919372412
Note		

Type	Qty.	Order No.
CP DCDC 50W 5V 8A	1	9919372405
Note		

Accessories

Note	
Bracket for wall mounting: 7920560000	

Note	
Bracket for wall mounting: 7920560000	

Note	
Bracket for wall mounting: 7920560000	

Unregulated power supplies

compactPower
POWER FOR AUTOMATION

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Unregulated power supplies – compactPower

Compact power supply units are important links in the power supplies for controllers. They are utilised where processes or control voltages are required that vary from the mains voltage. Transformers provide the electrical isolation between the input circuit and the output circuit.

The minimum requirement (to VDE 0550) is 2000 V.

Screw terminals secure the input-side connection to the mains.

The single-phase devices are rated for a nominal voltage of $\sim 230 \pm \sim 15\text{V}$, or $\sim 400 \text{V} \pm \sim 15\text{V}$, 50/60 Hz, the 3-phase devices for $3 \times 400 \text{V} \pm 5\%$. The secondary DC voltage from the transformer is conducted to a bridge rectifier where it is rectified.

The pulsating DC voltage is then fed from the rectifier and filtered to a low residual ripple by means of an electrolytic capacitor.

This DC voltage is then fed to the output terminal. These are designed as pluggable screw terminals. A varistor is integrated in the output circuitry to attenuate voltage peaks. The operating status is indicated by means of a green LED via the output circuit. Devices with 600 W and higher are equipped with a fan.

Single-phase unregulated power supplies



Well-balanced spectrum for optimum economy

The output currents of these practical products are defined by way of two ambient temperatures.

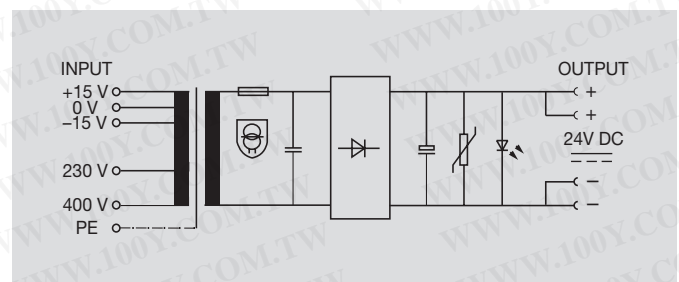
Size selection is based on the maximum effectiveness of the components.

Adapted to standard voltages in accordance with IEC 38

By choosing the appropriate terminals, the $\pm 15 \text{V}$ tapping capability allows the single-phase devices to be connected to six different nominal AC voltages: 215, 230, 245, 385, 400, 415 V.

The $\pm 5\%$ tapping capability allows the 3-phase devices to be connected to three different nominal voltages: 380, 400, 415 V.

Block diagram for single-phase devices CP NT



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

Reliable short-circuit and overload protection

Integrated on the secondary side in device sizes up to CP NT 192W, the FKS fuse protects against overloads and short-circuits. For the devices CP NT 264W and CP NT 432W, this protection is achieved by means of a thermostatic switch built into the transformer.

Easy mounting

Keyhole assembly simplifies mounting and saves time. A snap-on fixing attachment for 35 mm DIN rails is available as an accessory for single-phase devices up to 144 W. Simply plugged into the device and secured with two screws, it ensures easiest possible mounting!

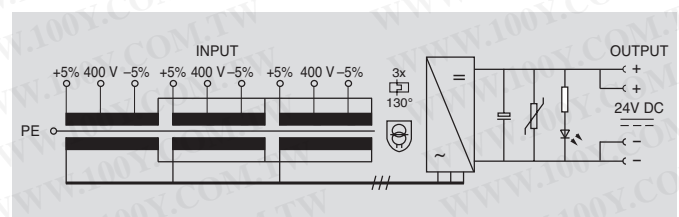
Transformers, vacuum-impregnated, painted black

- No humming
- Moisture cannot ingress into the windings
- Windings mechanically secured
- Improved heat dissipation from the windings
- Good heat dissipation

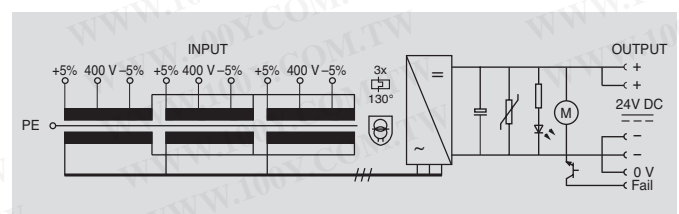
3-phase unregulated power supplies



**Block diagram for 3-phase devices
 CP NT3 250 / 400 / 500 W**



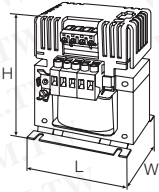
**Block diagram for 3-phase devices
 CP NT3 600 / 750 / 1000 W**



Unregulated power supplies

Power supply

compactPower
single phase



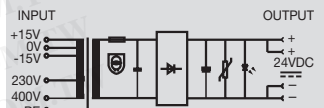
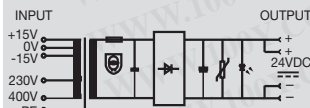
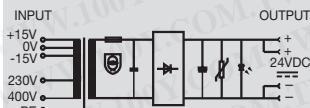
CP NT 36



CP NT 72



CP NT 144



E

Technical data

Input

Input voltage
 Input current
 Input frequency
 No-load input current
 External back-up fuse

230 V/ 400 V ±15V
 0.35 A/ 0.2 A
 50/ 60 Hz
 0.1A / 0.06A
 0.63At / 0.315At

230 V/ 400 V ±15V
 0.56 A/ 0.32 A
 50/ 60 Hz
 0.13A / 0.08A
 0.1 At / 0.63 At

230 V/ 400 V ±15V
 0.95 A/ 0.55 A
 50/ 60 Hz
 0.33A / 0.19A
 1.6At / 1.0At

Output

Output voltage
 Output current at 40°C
 Output current at 55°C
 max. output power
 max. residual ripple
 Fuse, max.
 Protective circuit

24 V SELV
 2 A
 1 A
 36 W
 < 5 %
 3 At flat plug-in fuse
 varistor

24 V SELV
 3 A
 3 A
 72 W
 < 5 %
 7.5 At flat plug-in fuse
 varistor

24 V SELV
 6 A
 5 A
 144 W
 < 5 %
 10 At flat plug-in fuse
 varistor

Insulation coordination

Electric shock protection
 Insulation strength
 Insulation class
 Ingress protection class
 pollution severity

to VBG4
 4 kV
 B
 IP 20
 1

to VBG4
 4 kV
 B
 IP 20
 1

to VBG4
 4 kV
 B
 IP 20
 1

General data

Operating temperature
 Storage temperature
 Degree of efficiency at max. load
 Mounting position horizontal/arbitrary
 Status indication
 Weight
 Standards
 DIN Rail compatibility
 EMC standards
 Approvals

-20 °C...+55 °C
 -20 °C...+80 °C
 80 %
 1A @ 55 °C; 1.5A @ 40 °C /1A @ 40 °C
 green LED
 1.5 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 Direct mounting, TS 35 with clip-on plate
 EN 61000-6 /-2, -3
 CE;cURus;UL/LIST;

-20 °C...+55 °C
 -20 °C...+80 °C
 83 %
 2.5A @ 55 °C; 3A @ 40 °C /2.5A @ 40 °C
 green LED
 2.1 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 Direct mounting, TS 35 with clip-on plate
 EN 61000-6 /-2, -3
 CE;cURus;UL/LIST;

-20 °C...+55 °C
 -20 °C...+80 °C
 88 %
 5A @ 55 °C; 6A @ 40 °C /5A @ 40 °C
 green LED
 3.1 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 Direct mounting, TS 35 with clip-on plate
 EN 61000-6 /-2, -3
 CE;cURus;UL/LIST;

Clamping range In. (rating-/min./max) mm²
 Clamping range Out. (rating-/ min./max)mm²
 Length x width x height mm

Screw connection
 2.5 / 0.13 / 2.5
 2.5 / 0.5 / 4
 68 x 78 x 123

Screw connection
 2.5 / 0.13 / 2.5
 2.5 / 0.5 / 4
 85 x 84 x 125

Screw connection
 2.5 / 0.13 / 2.5
 2.5 / 0.5 / 4
 92 x 96 x 135

Note

Ordering data

Type	(Qty.=1)	Order No.
CP NT 36W 24V 1.5A		8575260000

Type	(Qty.=1)	Order No.
CP NT 72W 24V 3A		8575270000

Type	(Qty.=1)	Order No.
CP NT 144W 24V 6A		8575280000

Note

Accessories

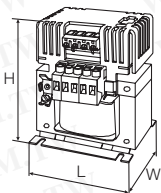
Note

Clip-in plate for TS35: 8588900000

Clip-in plate for TS35: 8588900000

Clip-in plate for TS35: 8588900000

compactPower
single phase



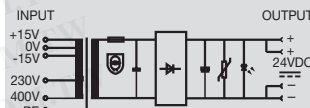
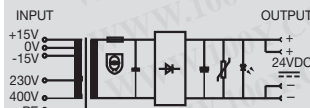
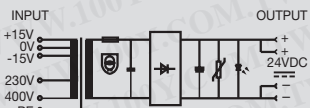
CP NT 192



CP NT 264



CP NT 432



Technical data

Input	
Input voltage	230 V/ 400 V ±15V
Input current	1.3 A/ 0.7 A
Input frequency	50/ 60 Hz
No-load input current	0.3A / 0.16A
External back-up fuse	2.0At / 1.25At
Output	
Output voltage	24 V SELV
Output current at 40°C	8 A
Output current at 55°C	7 A
max. output power	192 W
max. residual ripple	< 5 %
Fuse, max.	15 At flat plug-in fuse
Protective circuit	varistor
Insulation coordination	
Electric shock protection	to VBG4
Insulation strength	4 kV
Insulation class	B
Ingress protection class	IP 20
pollution severity	1
General data	
Operating temperature	-20 °C...+55 °C
Storage temperature	-20 °C...+80 °C
Degree of efficiency at max. load	90 %
Mounting position horizontal/arbitrary	7A @ 55 °C; 8A @ 40 °C / 7A @ 40 °C
Status indication	green LED
Weight	4.3 kg
Standards	EN 60950, EN 61558-2-4, -6, 72/23/EWG
DIN Rail compatibility	Direct mounting
EMC standards	EN 61000-6 /-2, -3
Approvals	CE;cURus;UL/LIST;

Input	
Input voltage	230 V/ 400 V ±15V
Input current	1.8 A/ 1 A
Input frequency	50/ 60 Hz
No-load input current	0.5A / 0.28A
External back-up fuse	3.15At / 1.6At
Output	
Output voltage	24 V SELV
Output current at 40°C	11 A
Output current at 55°C	10 A
max. output power	264 W
max. residual ripple	< 5 %
Fuse, max.	Thermal switch
Protective circuit	varistor
Insulation coordination	
Electric shock protection	to VBG4
Insulation strength	4 kV
Insulation class	B
Ingress protection class	IP 20
pollution severity	1
General data	
Operating temperature	-20 °C...+55 °C
Storage temperature	-20 °C...+80 °C
Degree of efficiency at max. load	93 %
Mounting position horizontal/arbitrary	10A @ 55 °C; 11A @ 40 °C / 10A @ 40 °C
Status indication	green LED
Weight	6.1 kg
Standards	EN 60950, EN 61558-2-4, -6, 72/23/EWG
DIN Rail compatibility	Direct mounting
EMC standards	EN 61000-6 /-2, -3
Approvals	CE;cURus;UL/LIST;

Input	
Input voltage	230 V/ 400 V ±15V
Input current	2.5 A/ 1.3 A
Input frequency	50/ 60 Hz
No-load input current	0.54A / 0.31A
External back-up fuse	4.0At / 2.0At
Output	
Output voltage	24 V SELV
Output current at 40°C	18 A
Output current at 55°C	15 A
max. output power	432 W
max. residual ripple	< 5 %
Fuse, max.	Thermal switch
Protective circuit	varistor
Insulation coordination	
Electric shock protection	to VBG4
Insulation strength	4 kV
Insulation class	B
Ingress protection class	IP 20
pollution severity	1
General data	
Operating temperature	-20 °C...+55 °C
Storage temperature	-20 °C...+80 °C
Degree of efficiency at max. load	95 %
Mounting position horizontal/arbitrary	15A @ 55 °C; 18A @ 40 °C / 15A @ 40 °C
Status indication	green LED
Weight	9.1 kg
Standards	EN 60950, EN 61558-2-4, -6, 72/23/EWG
DIN Rail compatibility	Direct mounting
EMC standards	EN 61000-6 /-2, -3
Approvals	CE;cURus;UL/LIST;

Screw connection	
Clamping range In. (rating-/min./max)	mm ² 2.5 / 0.13 / 2.5
Clamping range Out. (rating-/ min./max)mm ²	2.5 / 0.5 / 4
Length x width x height	mm 105 x 105 x 145

Screw connection	
Clamping range In. (rating-/min./max)	mm ² 2.5 / 0.13 / 2.5
Clamping range Out. (rating-/ min./max)mm ²	2.5 / 0.5 / 4
Length x width x height	mm 113 x 120 x 165

Screw connection	
Clamping range In. (rating-/min./max)	mm ² 2.5 / 0.13 / 2.5
Clamping range Out. (rating-/ min./max)mm ²	2.5 / 0.5 / 4
Length x width x height	mm 135 x 135 x 185

Note

Ordering data

Note	
------	--

Type	(Qty.=1)	Order No.
CP NT 192W 24V 8A		8575300000

Type	(Qty.=1)	Order No.
CP NT 264W 24V 11A		8575310000

Type	(Qty.=1)	Order No.
CP NT 432W 24V 18A		8575320000

Accessories

Note	
------	--

Note	
------	--

Note	
------	--

Unregulated power supplies

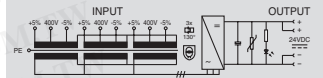
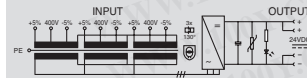
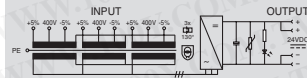
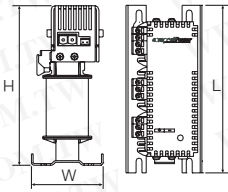
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

compactPower 3-phase

CP NT3 250

CP NT3 400

CP NT3 500



Power supply

E

Technical data

Input

Input voltage
 Input current
 Input frequency
 No-load input current
 Input fuse

3 x 400 V $\pm 5\%$
 0.5 A
 50/ 60 Hz
 0.1A
 3 No. thermostatic switches in primary winding

3 x 400 V $\pm 5\%$
 0.75 A
 50/ 60 Hz
 0.11 A
 3 No. thermostatic switches in primary winding

3 x 400 V $\pm 5\%$
 0.9 A
 50/ 60 Hz
 0.13 A
 3 No. thermostatic switches in primary winding

External back-up fuse

3 x 1.0AT

3 x 1.2 AT

3 x 1.6 AT

Output

Output voltage
 Output current at 40°C/60°C
 max. output power
 max. residual ripple
 Fuse, max.
 Protective circuit

24 V SELV
 11 A/10 A
 250 W
 < 2 %
 External 10 AT varistor

24 V SELV
 18 A/16 A
 400 W
 < 2 %
 External 16/18 AT varistor

24 V SELV
 22 A/20 A
 500 W
 < 2 %
 External 20/22 AT varistor

Insulation coordination

Electric shock protection
 Insulation strength
 Insulation class
 Ingress protection class
 pollution severity

to VBG4
 4 kV
 B
 IP 20
 1

to VBG4
 4 kV
 B
 IP 20
 1

to VBG4
 4 kV
 B
 IP 20
 1

General data

Operating temperature
 Storage temperature
 Degree of efficiency at max. load
 Mounting position horizontal/vertical
 Fan signal
 Status indication
 Weight
 Standards
 EMC standards
 DIN Rail compatibility

-20 °C...+60 °C
 -20 °C...+80 °C
 76 %
 11A @ 40 °C /10A @ 60 °C
 no integral fan
 green LED
 4.7 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 EN 61000-6 /-2, -3
 Direct mounting

-20 °C...+60 °C
 -20 °C...+80 °C
 77 %
 18A @ 40 °C /16A @ 60 °C
 no integral fan
 green LED
 6.9 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 EN 61000-6 /-2, -3
 Direct mounting

-20 °C...+60 °C
 -20 °C...+80 °C
 78 %
 22A @ 40 °C /20A @ 60 °C
 no integral fan
 green LED
 10 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 EN 61000-6 /-2, -3
 Direct mounting

Clamping range In. (rating-/min./max) mm²
 Clamping range Out. (rating-/ min./max)mm²
 Length x width x height mm

Screw connection
 2.5 / 0.5 / 2.5
 6 / 0.5 / 6
 185 x 84 x 192

Screw connection
 2.5 / 0.5 / 2.5
 6 / 0.5 / 6
 220 x 88 x 213

Screw connection
 2.5 / 0.5 / 2.5
 6 / 0.5 / 6
 220 x 108 x 215

Note

Condensation not allowed

Condensation not allowed

Condensation not allowed

Ordering data

Type	(Qty.=1)	Order No.
CP NT3 250W 24V 10A		8628620000

Type	(Qty.=1)	Order No.
CP NT3 400W 24V 15A		8628630000

Type	(Qty.=1)	Order No.
CP NT3 500W 24V 20A		8628650000

Note

Accessories

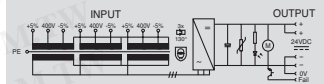
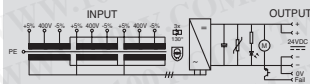
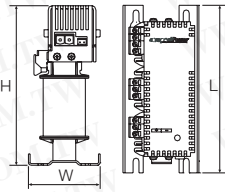
Note

compactPower 3-phase

CP NT3 600

CP NT3 750

CP NT3 1000



Technical data

Input

Input voltage
 Input current
 Input frequency
 No-load input current
 Input fuse

3 x 400 V ±5 %
 1.2 A
 50/ 60 Hz
 0.15 A
 3 No. thermostatic switches in primary winding

3 x 400 V ±5 %
 1.4 A
 50/ 60 Hz
 0.16 A
 3 No. thermostatic switches in primary winding

3 x 400 V ±5 %
 1.8 A
 50/ 60 Hz
 0.14 A
 3 No. thermostatic switches in primary winding

External back-up fuse

3 x 2 AT

3 x 2.5 AT

3 x 3.15 AT

Output

Output voltage
 Output current at 40°C/60°C
 max. output power
 max. residual ripple
 Fuse, max.
 Protective circuit

24 V SELV
 26 A/25 A
 600 W
 < 2 %
 External 25/26 AT varistor

24 V SELV
 32 A/30 A
 750 W
 < 2 %
 External 30/32 AT varistor

24 V SELV
 42 A/40 A
 1000 W
 < 2 %
 External 40/42 AT varistor

Insulation coordination

Electric shock protection
 Insulation strength
 Insulation class
 Ingress protection class
 pollution severity

to VBG4
 4 kV
 B
 IP 20
 1

to VBG4
 4 kV
 B
 IP 20
 1

to VBG4
 4 kV
 B
 IP 20
 1

General data

Operating temperature
 Storage temperature
 Degree of efficiency at max. load
 Mounting position horizontal/vertical
 Fan signal
 Status indication
 Weight
 Standards
 EMC standards
 DIN Rail compatibility

-20 °C...+60 °C
 -20 °C...+80 °C
 78 %
 26A @ 40 °C /25A @ 60 °C
 Open collector <30 V/ <5 mA during fault
 green LED
 11 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 EN 61000-6 /-2, -3
 Direct mounting

-20 °C...+60 °C
 -20 °C...+80 °C
 77 %
 32A @ 40 °C /30A @ 60 °C
 Open collector <30 V/ <5 mA during fault
 green LED
 14 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 EN 61000-6 /-2, -3
 Direct mounting

-20 °C...+60 °C
 -20 °C...+80 °C
 77 %
 42A @ 40 °C /40A @ 60 °C
 Open collector <30 V/ <5 mA during fault
 green LED
 18 kg
 EN 60950, EN 61558-2-4, -6, 72/23/EWG
 EN 61000-6 /-2, -3
 Direct mounting

Clamping range In. (rating-/min./max) mm²
 Clamping range Out. (rating-/ min./max)mm²
 Length x width x height mm

Screw connection
 2.5 / 0.5 / 2.5
 6 / 0.5 / 6
 230 x 108 x 212

Screw connection
 2.5 / 0.5 / 2.5
 6 / 0.5 / 6
 270 x 121 x 255

Screw connection
 2.5 / 0.5 / 2.5
 10 / 0.5 / 10
 280 x 122 x 275

Note

Condensation not allowed

Condensation not allowed

Condensation not allowed

Ordering data

Type	(Qty.=1)	Order No.
CP NT3 600W 24V 25A		8628660000

Type	(Qty.=1)	Order No.
CP NT3 750W 24V 30A		8628670000

Type	(Qty.=1)	Order No.
CP NT3 1000W 24V 40A		8628680000

Note

Accessories

Note

UPS control unit



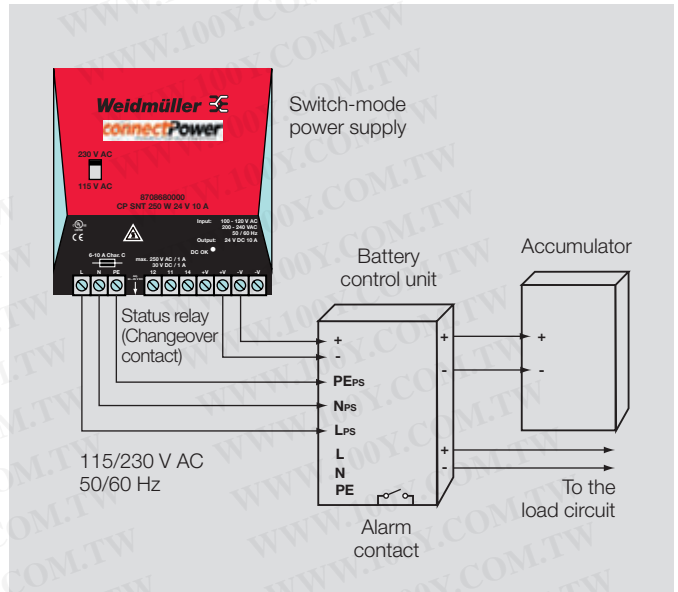
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

When the power supply fails, UPS control units take over the 12/24 V DC power supply to the installation within seconds, and guarantee plant availability for a defined length of time.

Professional signalling guarantees that all relevant signal statuses can be evaluated on the spot. Critical statuses can also be immediately redirected to a higher-level controller.

The battery module undertakes complete battery management of the connected lead-acid batteries. Constant charging and discharging plus electronic overcurrent protection guarantee an extremely long operational lifetime for the batteries.

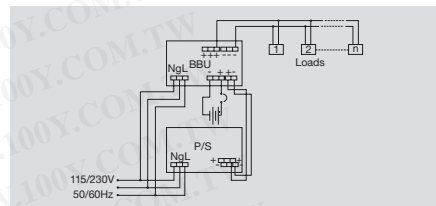
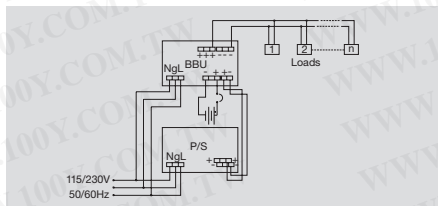
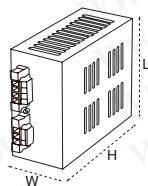
Switch-mode power supply, battery control unit and battery providing an uninterrupted power supply.



connectPower

CP-BBU 115-230 V AC / 12 V DC

CP-BBU 115-230 V AC / 24 V DC



Technical data

Input						
Input voltage	85...265 V AC; 120...300 V DC; typ.115-230 V AC ±10%	85...265 V AC; 120...300 V DC; typ.115-230 V AC ±10%				
Input current	0.8 A @ 115 V AC; 0.5 A @ 230 V AC	1 A @ 115 V AC; 0.6 A @ 230 V AC				
Input frequency	50/ 60 Hz	50/ 60 Hz				
Input fuse	2 A slow-blow fuse (internal)	2 A slow-blow fuse (internal)				
Making current limit	Thermistor	Thermistor				
Overvoltage protection	Varistor	Varistor				
Output						
Output voltage	12 V DC	24 V DC				
Output current	max. 15 A / max 9.2 A for power supply	max. 15 A / max 9.0 A for power supply				
Mains failure bridge-over time						
Battery charging current	2.00 A	3.00 A				
Battery voltage	13.65 V	27.3 V				
Control at input voltage	0.2 %	0.2 %				
General data						
Operating temperature	-20 °C...+50 °C	-20 °C...+50 °C				
Storage temperature	-20 °C...+85 °C	-20 °C...+85 °C				
Status indication	LED green (Full Charge): Battery voltage > 14.75 Vdc LED yellow (Battery Low): Battery voltage < 11 Vdc LED yellow (Chargin): BBU charges Battery LED red (Fault): no AC input voltage LED red (Battery Reverse): Battery polarizing	LED green (Full Charge): Battery voltage > 29.5 Vdc LED yellow (Battery Low): Battery voltage < 22 Vdc LED yellow (Charging): BBU charges Battery LED red (Fault): no AC input voltage LED red (Batterie Reverse): Battery polarizing fault LED red (Battery open): no battery connected				
Standards	EN 50178, EN 60950, IEC950	EN 50178, EN 60950, IEC950				
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3				
Approvals	CSA;UL/UR;CE;	CSA;UL/UR;CE;				
Dimensions	Screw connection	Screw connection				
Clamping range (rating- / min. / max.)	4.0 / 0.1 / 4	4.0 / 0.1 / 4				
Length x width x height	161 x 72.5 x 127.5	161 x 72.5 x 127.5				
Note						
Ordering data	Type	Qty.	Order No.	Type	Qty.	Order No.
Connection system	CP-BBU 115-230VAC / 12VDC	1	9916280012	CP-BBU 115-230VAC / 24VDC	1	9916280024
Note						
Accessories	Note			Note		
	Bracket for wall mounting: 7920560000			Bracket for wall mounting: 7920560000		

WAVEGUARD electronic fusing

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

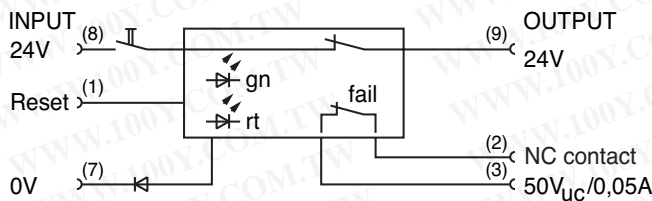
Owing to their technical characteristics, switch-mode power units cannot supply a dynamic output current, or at best only a very limited one. For protection in the case of an overload, the device switches to a current limit and reduces the voltage. As this means that sufficient power is no longer available, circuit-breakers and cartridge fuses do not operate reliably. Selective electronic fusing eliminates detrimental cross-coupling between parallel current paths, protects and switches off only the defective circuits. That results in high system availability and minimises the troubleshooting workload in the ever more complex systems.

Additional reset input

The reset input can be switched with a voltage pulse for remote resetting of the system, and the load circuit is closed again with the trailing pulse edge. A cyclic automatic reset is not permissible and is also inadvisable for safety reasons.

Visual signalling and floating signal contact

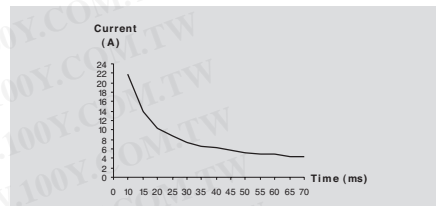
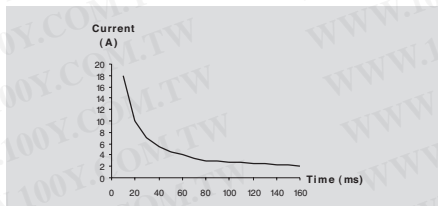
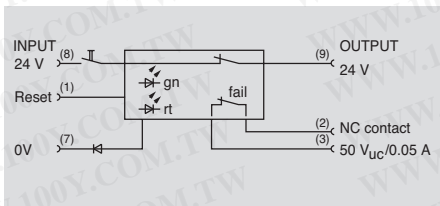
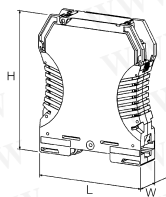
It is necessary to signal one malfunction: the switching status of the fuse is shown by the integral LED and the signal contact (NCC). This speeds up troubleshooting and therefore reduces maintenance costs.



WAVEGUARD

24 V DC 1.6 A

24 V DC 3.15 A



Technical data

Input	
Rated voltage	24 V DC
Rated current	1.6 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20°C...+85°C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	3.15 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20°C...+85°C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	3.15 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20°C...+85°C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Dimensions	
Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm
Note	
Periodic auto-reset not permitted; Tu=23°C, single module	

Screw connection		Tension clamp connection	
Clamping range (rating- / min. / max.)	mm ²	Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm	Length x width x height	mm
Note			
Periodic auto-reset not permitted; Tu=23°C, single module			

Screw connection		Tension clamp connection	
Clamping range (rating- / min. / max.)	mm ²	Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm	Length x width x height	mm
Note			
Periodic auto-reset not permitted; Tu=23°C, single module			

Ordering data

Connection system	
Screw connection	
Tension clamp connection	
Note	

Type	Qty.	Order No.
WGS 24Vdc 1.6A	1	8618890000
WGZ 24Vdc 1.6A	1	8621040000
Note		

Type	Qty.	Order No.
WGS 24Vdc 3.15A	1	8618910000
WGZ 24Vdc 3.15A	1	8621030000
Note		

Accessories

Note	
------	--

Note		
------	--	--

Note		
------	--	--

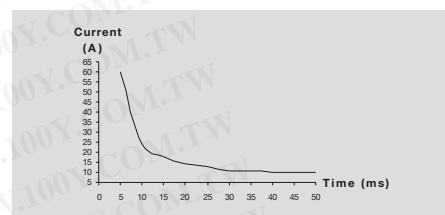
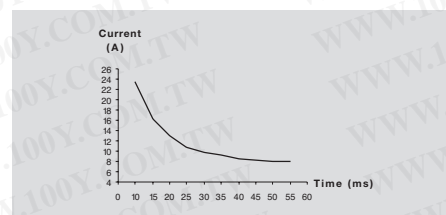
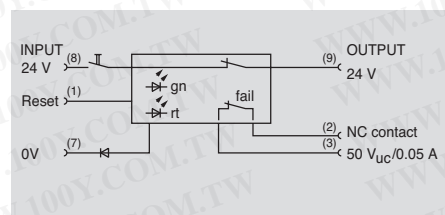
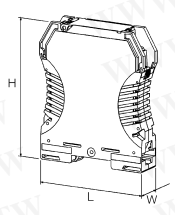
Fuse for 24V DC electric circuits

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

WAVEGUARD

24 V DC 6.3 A

24 V DC 8 A



E

Technical data

Input	
Rated voltage	24 V DC
Rated current	6.3 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	8 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	8 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Dimensions	
Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm
Note	
Periodic auto-reset not permitted; Tu=23°C, single module	

Screw connection		Tension clamp connection	
Clamping range (rating- / min. / max.)	mm ²	Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm	Length x width x height	mm
Note			
Periodic auto-reset not permitted; Tu=23°C, single module			

Screw connection		Tension clamp connection	
Clamping range (rating- / min. / max.)	mm ²	Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm	Length x width x height	mm
Note			
Periodic auto-reset not permitted; Tu=23°C, single module			

Ordering data

Connection system	
Screw connection	WGS 24Vdc 6.3A
Tension clamp connection	WGZ 24Vdc 6.3A
Note	

Type	Qty.	Order No.
WGS 24Vdc 6.3A	1	8618930000
WGZ 24Vdc 6.3A	1	8621020000
Note		

Type	Qty.	Order No.
WGS 24Vdc 8.0A	1	8618940000
WGZ 24VDC 8.0A	1	8621010000
Note		

Accessories

Note	
------	--

Note	
------	--

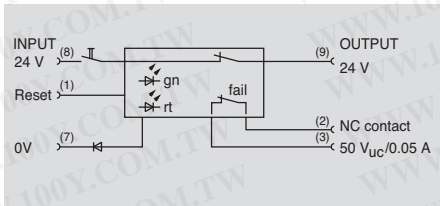
Note	
------	--

WAVEGUARD

24 V DC 0.5...5 A



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



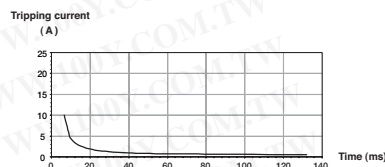
Technical data

Input	Rated voltage	24 V DC
	Rated current	0.5...5 A adjustable
	Reset	Pulse > 100 ms +24 V, falling edge ON
Output	Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
	Signalling delay	3.5 ms typically
General data	Operating temperature	0°C...+55°C (fitted)
	Storage temperature	-20°C...+85°C
	Status indication	LED green: OK, LED red: Tripped
	Standards	EN 50178
	EMC standards	EN 61000-6-1, 2, 4; EN 55011
	Sliding switch	OFF - wait 10 s - ON; on / off
	Approvals	n.a.

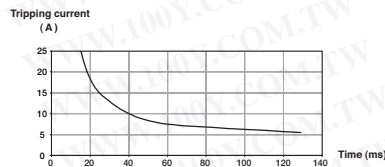
Derating curve

Dynamic tripping characteristic

Tripping current: 0.5 A



Tripping current: 5.0 A



Dimensions	Screw connection	Tension clamp connection
Clamping range (rating- / min. / max.)	2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	92.4 x 22.5 x 72	92.4 x 22.5 x 72
Note	Periodic auto-reset not permitted; Tu=23°C, single module	

Ordering data

Connection system	Type	Qty.	Order No.
Screw connection	WGS 24Vdc 0.5...5A	1	8710270000
Tension clamp connection	WGS 24Vdc 0.5...5A	1	8727630000

Note

Accessories

Note