



145W Single Output Switching Power Supply

S-145 series



■ Features :

- AC input range selectable by switch
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 25KHz
- LED indicator for power on
- Made in China for low cost
- High reliability
- 1 year warranty

SPECIFICATION

MODEL		S-145-5	S-145-7.5	S-145-12	S-145-15	S-145-24
OUTPUT	DC VOLTAGE	5V	7.5V	12V	15V	24V
	RATED CURRENT	25A	18A	12A	9.6A	6A
	CURRENT RANGE	0 ~ 25A(30A max.)	0 ~ 18A(21A max.)	0 ~ 12A(14A max.)	0 ~ 9.6A(11A max.)	0 ~ 6A(7A max.)
	RATED POWER	125W	135W	144W	144W	144W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	6 ~ 8.3V	10.6 ~ 13.2V	13.2 ~ 16.5V	21 ~ 28V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
SETUP, RISE, HOLD TIME		100ms, 50ms, 20ms at full load				
INPUT	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC selected by switch				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	78%	80.5%	80.5%	81%	83.5%
	AC CURRENT	3.2A/115VAC 1.6A/230VAC				
	INRUSH CURRENT (max.)	COLD START 35A				
	LEAKAGE CURRENT	<3.5mA / 240VAC				
PROTECTION	OVER LOAD	125 ~ 165% rated output power Protection type : Shut down o/p voltage, re-power on to recover				
	OVER VOLTAGE	5.6 ~ 6.8V	8.6 ~ 10V	13.8 ~ 16.2V	17.3 ~ 20.3V	29 ~ 32V
		Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	Design refer to UL1012				
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC				
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B				
	EMS IMMUNITY	Compliance to IEC801-2,3,4 Light industry level, criteria A				
OTHERS	MTBF	286.7K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	199*98*38mm (L*W*H)				
	PACKING	0.71Kg; 30pcs/22.5Kg/1.22CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. C3,4,22,41,63,140,141 must be removed. 5. Refer to output derating curve us input voltage.					

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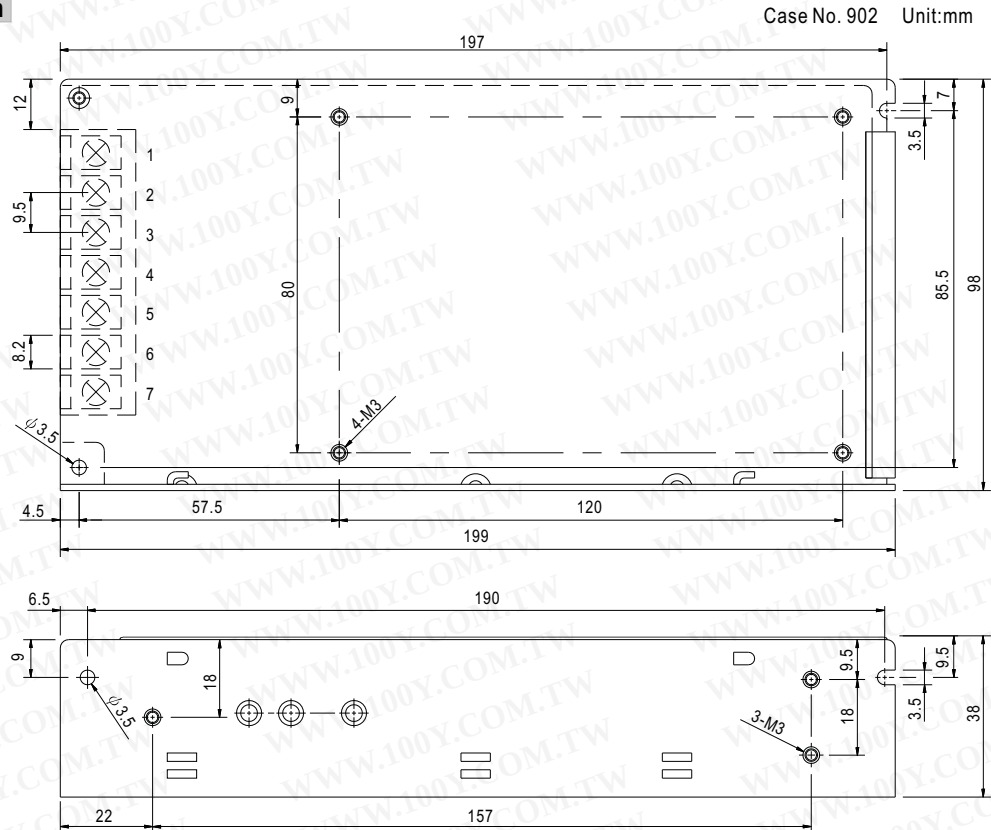
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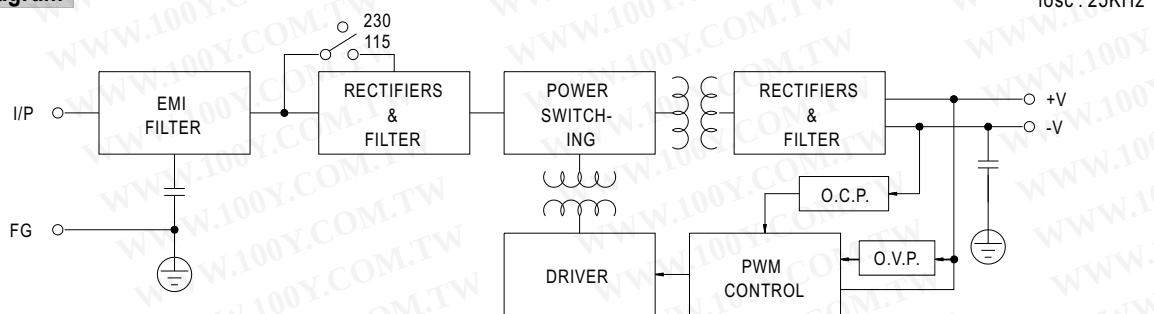
Mechanical Specification

Terminal Pin. No Assignment

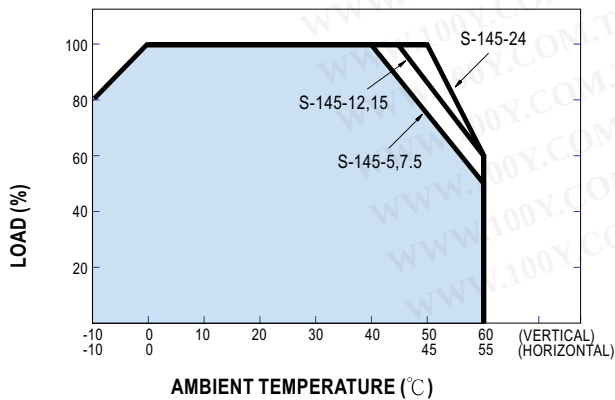
Pin No.	Assignment
1	AC/L
2	AC/N
3	FG $\perp$
4,5	DC OUTPUT -V
6,7	DC OUTPUT +V



Block Diagram



Derating Curve



Static Characteristics (24V)

