



PE6V7.2

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Rechargeable Sealed Lead - Acid (VRLA) Battery

PORTALAC

PE Series



Nominal Voltage 6 Volt

20 Hour Rate Capacity 7.2 Ah

Dimensions	mm	Inches	Tolerance
Length	151	5.94	+/- 1mm (0.04In)
Width	34	1.34	+/- 1mm (0.04In)
Case Height	94	3.70	+/- 1mm (0.04In)
Terminal Height	98	3.86	+/- 2mm (0.08In)

Weight 1.38 Kg. 3.04 Lbs. (approx.)

Case Material Synthetic Resin (ABS)

Terminal F1: Amp Faston Type 187

Maximum Short Duration Discharge Current
 (Maximum Duration: 1 Minute) 43.2 Amperes
 (Maximum Duration: 5 Seconds) 108 Amperes

Internal Resistance (Fully charged battery)
 15 mOhm (approx.)

Energy Density (@ 20 Hour Rate)
 89.52 Watt-Hours / Litre (1.47 Watt-Hours / Cubic Inch)

Specific Energy (@ 20 Hour Rate)
 31.3 Watt-Hours / Kg (14.2 Watt-Hours / Pound)

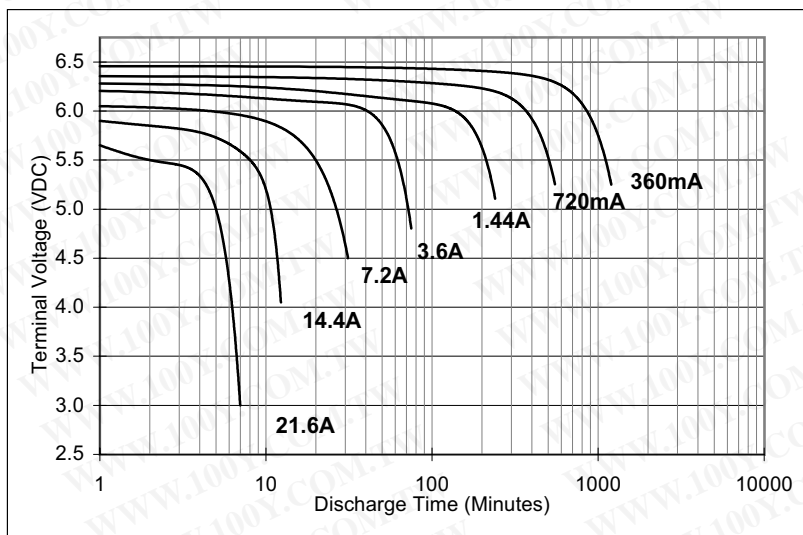
Operating Temperature Range
Discharge -20°C (-4°F) ~ 50°C (122°F)
Recharge 0°C (32°F) ~ 40°C (104°F)
Storage -20°C (-4°F) ~ 40°C (104°F)

Self Discharge Rate
 3% Per Month at 25°C (77°F)

Vibration Test No Loss in Capacity or Performance
 2000 Cycles Per Minute, 2.5 mm (0.10 Inch) Excursion, 2 Hours

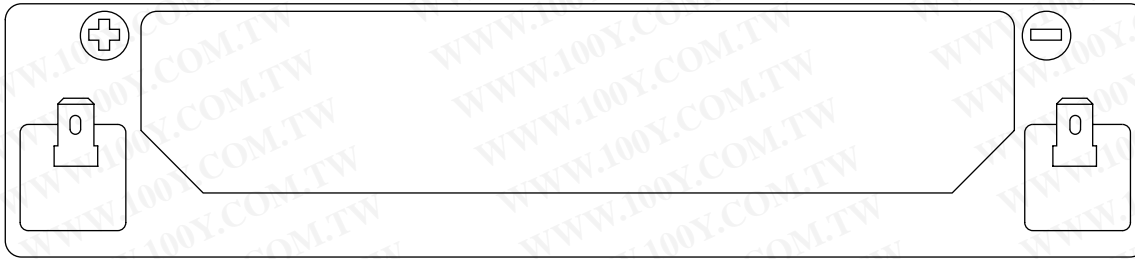
Constant Current Discharge Characteristics (25°C / 77°F)


Discharge Time	Capacity in Ah's	Discharge Amperes	Final Voltage	Discharge C-Rate
20 Hrs	7.20	0.36	5.25	0.05
9 Hrs	6.60	0.72	5.25	0.10
4 Hrs	5.76	1.44	5.10	0.20
75 Min	4.50	3.60	4.80	0.50
31 Min	3.74	7.20	4.50	1.00
12 Min	2.95	14.40	4.05	2.00
7 Min	2.52	21.60	3.00	3.00



Constant Voltage Recharge Methods and Notes

- Constant Voltage, Current Limited charging is recommended. Use other recharge methods only when unavoidable.
- Standby Application Recharge (25°C / 77°F):** Charge between 6.75~6.9 Volts DC per battery. [2.275 +/- 0.025 Volts Per Cell] (VPC)
 - The centre value (2.275 VPC or 6.83 VDC per battery) is suggested for series use, and is generally optimum for many Standby applications.
- Cyclic Application Recharge (25°C / 77°F):** Charge between 7.2~7.35 Volts DC per battery. [2.425 +/- 0.025 Volts Per Cell]
 - Limit initial recharge current to 1.8 amperes (0.25C) or less, unless some heat protection systems are provided.
 - For proper over-night charging in most Cyclic applications, a minimum recharge current of 0.72 amperes (0.10C) is recommended.
- Temperature Compensation**
 - Employ recharge voltage temperature compensation when the battery temperature is less than 5°C (41°F) or greater than 35°C (95°F).
 - A charge voltage decrease is required at higher temperatures, while a charge voltage increase is required at lower temperatures.
 - When recharge voltage requires compensation, do so from the standard temperature of 25°C (77°F), at the rate of -3mV / °C / Cell (-1.7mV / °F / Cell) for Standby applications, and -5mV / °C / Cell (-2.8mV / °F / Cell) for Cyclic applications.



GS Portalac PE Series		
Rechargeable Sealed Lead-Acid (VRLA) Battery		
Model:	PE6V7.2	
Voltage:	6	Capacity: 7.2 Ah (20 Hr)
Terminal:	Amp Faston Type 187 (F1)	
Dimensions:	mm (Inch)	
Drawing:	PE6V7.2T-0201CE	
Date:	2002.01.23	
© Japan Storage Battery Co., Ltd.		
DO NOT SCALE DRAWING		

