

**PG-12V42**  
12 Volt 42 A.H.



UPS / TELECOM BATTERY

**FEATURES**

**Long Service Life**

Thick plate design and efficient gas recombination yield a service life expectancy of 10 years in standby mode.

**Low Internal Resistance**

Superb high-rate discharge characteristics ensure reliable performance in UPS and Telecom applications.

**Maintenance-Free, Non-Spillable**

Proven VRLA technology guarantees safe operation without maintenance and 'non-restricted article' status for transportation.

**Low Self-Discharge**

Lead-calcium alloy grids and use of high purity lead account for superior shelf-life characteristics permitting storage for extended periods of time.

**Designed-In Reliability**

Cutting-edge manufacturing and process control combined with meticulous quality assurance procedures guarantee consistent and dependable performance.

**PRODUCT**



CE  **ISO9001**  
MH20845

**SPECIFICATIONS**

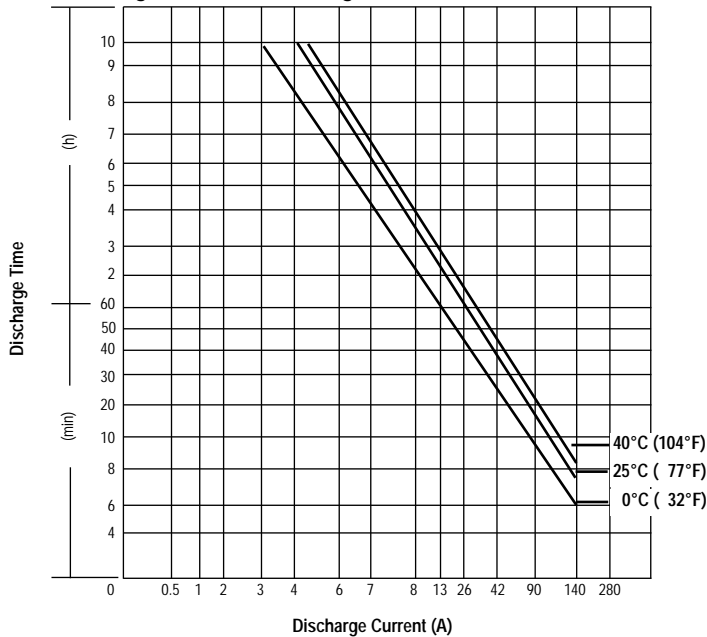
<b>Nominal Voltage</b>	12 Volt (6 cells)
<b>Nominal Capacity</b>	
20-hr. rate ( 2.25A to 10.8V)	45.0AH
10-hr. rate ( 4.2A to 10.8V)	42.0AH
8-hr. rate ( 5.2A to 10.5V)	41.6AH
5-hr. rate ( 7.2A to 10.5V)	36.0AH
3-hr. rate ( 10.9A to 10.5V)	32.7AH
1-hr. rate ( 25.2A to 9.6V)	25.2AH
<b>Approximate Weight</b>	34.0 lbs. (15.4 kg)
<b>Energy Density ( 10-hr. rate )</b>	1.49 W-hrs/in <sup>3</sup> (91.2 W-hrs/l)
<b>Specific Energy ( 10-hr. rate )</b>	14.8 W-hrs/lb (32.7 W-hrs/kg)
<b>Internal Resistance</b>	8 milliohms
<b>30-sec. Discharge Current to 1.60V/cell</b>	263 A
<b>Terminals</b>	T6: threaded insert w. 6 mm stud fastener
<b>Shelf Life — ( % of nominal capacity at 68° F (20° C) )</b>	
1 Month	97%
3 Months	91%
6 Months	83%
<b>Operating Temperature Range</b>	
Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
<b>Case Material</b>	ABS plastic

CONSTANT POWER DISCHARGE RATINGS

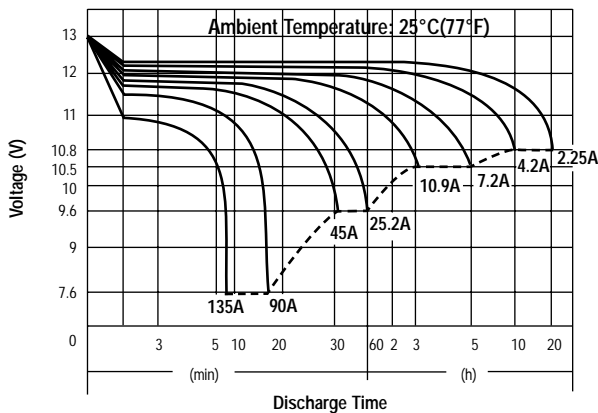
Model	Final	WATTS PER CELL @ 25°C						
		5 min	10 min	15 min	20 min	30 min	45 min	60 min
PG-12V42	1.80V	162	142	125	112	93	67	54
	1.75V	186	150	134	122	98	73	55
	1.67V	194	168	150	129	100	75	56
	1.60V	210	176	155	132	116	77	57

PERFORMANCE CHARACTERISTICS

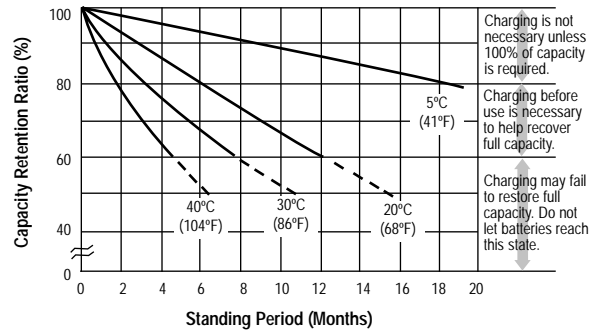
Discharge Time vs. Discharge Current



Discharge Characteristics



SELF-DISCHARGE & STORAGE

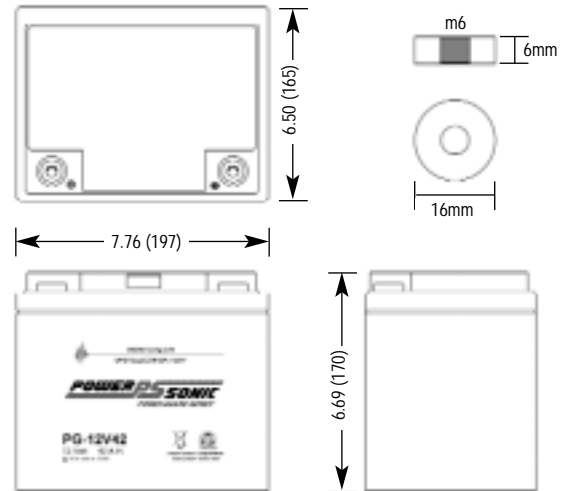


CHARGING

**Cycle Applications:** Limit initial current to 12.6A. Charge until battery voltage (under charge) reaches 14.40 to 14.70 volts at 68°F (20°C). Hold at 14.40 to 14.70 volts until current drops to approximately 420mA.

**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.50 to 13.80 volts continuously.

PHYSICAL DIMENSIONS



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