

PG-12V42-FR

12 Volt 42 A.H.

POWER SONIC
POWER-GUARD SERIES®

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

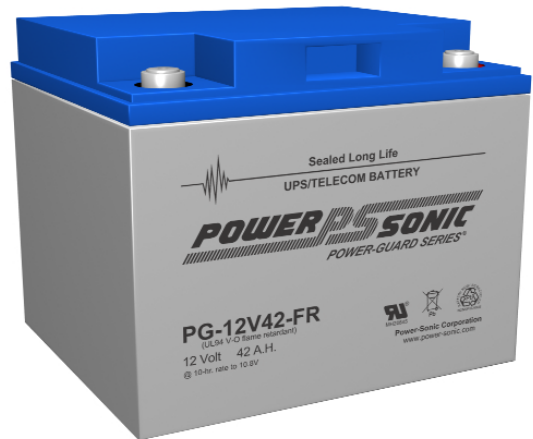
Proven VRLA technology guarantees safe operation without maintenance and 'non-restricted article' status for transportation.

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

Nominal Voltage	12 Volt (6 cells)
Nominal Capacity	
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
Approximate Weight	34.0 lbs. (15.4 kg)
Energy Density (10-hr. rate)	1.49 W-hrs/in ³ (91.2 W-hrs/l)
Specific Energy (10-hr. rate)	14.8 W-hrs/lb (32.7 W-hrs/kg)
Internal Resistance	8 milliohms
30-sec. Discharge Current to 1.60V/cell	263 A
Terminals	T6: threaded insert w. 6 mm stud fastener
Shelf Life — (% of nominal capacity at 68° F (20° C))	
1 Month	97%
3 Months	91%
6 Months	83%
Operating Temperature Range	
Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
Case Material (UL94 V-O flame retardant)	ABS plastic

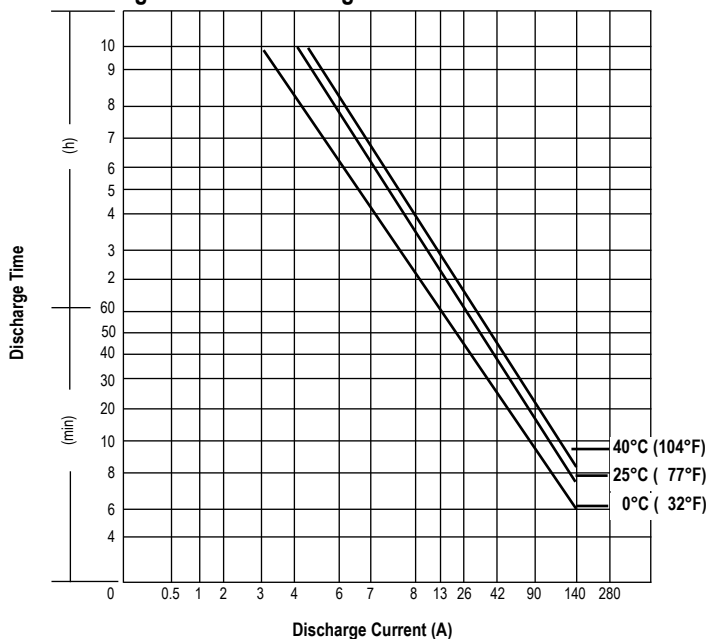
To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

CONSTANT CURRENT & POWER DISCHARGE RATINGS

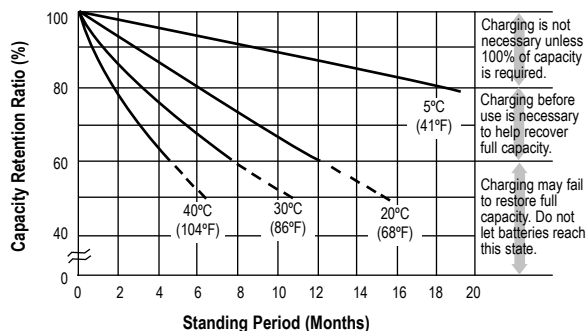
Model	Final	AMPS/WATTS PER CELL @ 25°C													
		5 min		10 min		15 min		20 min		30 min		45 min		60 min	
		A	W	A	W	A	W	A	W	A	W	A	W	A	W
12V42-FR	1.80V	86	162	74	142	64	125	56.5	112	46	93	33.2	67	27	54
	1.75V	99	186	80	150	70	134	62.5	122	49	98	36	73	27	55
	1.67V	113	194	92.5	168	81.2	150	67	129	52	100	36.2	75	25.2	56
	1.60V	139	210	97	176	84	155	68.9	132	48.6	116	33.6	77	25	57

PERFORMANCE CHARACTERISTICS

Discharge Time vs. Discharge Current



SELF-DISCHARGE & STORAGE

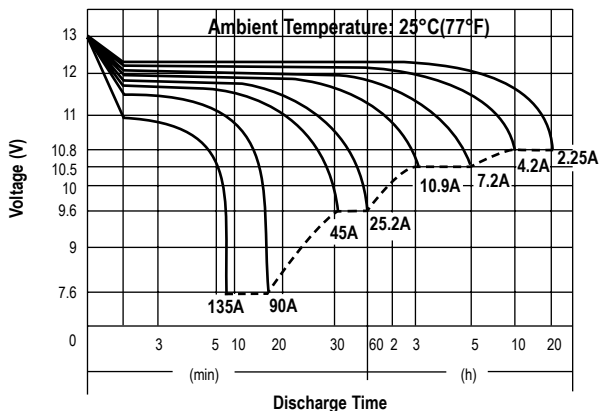


CHARGING

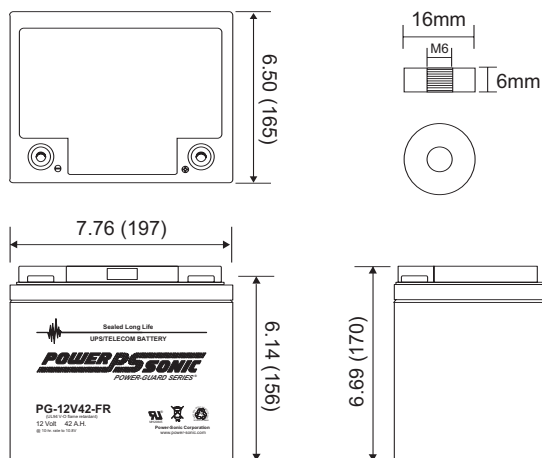
Cycle Applications: Limit initial current to 12.6A. Charge until battery voltage (under charge) reaches 14.40 to 14.70 volts at 68°F (20°C). Hold at 14.40 to 14.70 volts until current drops to approximately 420mA.

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

Discharge Characteristics



PHYSICAL DIMENSIONS



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