

PG-12V103-FR
12 Volt 103 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

Nominal Voltage	12 Volt (6 cells)
Nominal Capacity	
20-hr. rate (5.56A to 10.8V)	111.0AH
10-hr. rate (10.3A to 10.8V)	103.0AH
8-hr. rate (12.4A to 10.5V)	99.2AH
5-hr. rate (17.7A to 10.5V)	88.5AH
3-hr. rate (26.8A to 10.5V)	80.4AH
1-hr. rate (61.8A to 9.6V)	61.8AH
Approximate Weight	69.0 lbs. (31.3 kg)
Energy Density (10-hr. rate)	1.69 W-hrs/in3 (102.0 W-hrs/l)
Specific Energy (10-hr. rate)	17.9 W-hrs/lb (39.5 W-hrs/kg)
Internal Resistance	4.3 milliohms
30-sec. Discharge Current to 1.60V/cell	650 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	ABS plastic (UL94 V-O flame retardant)

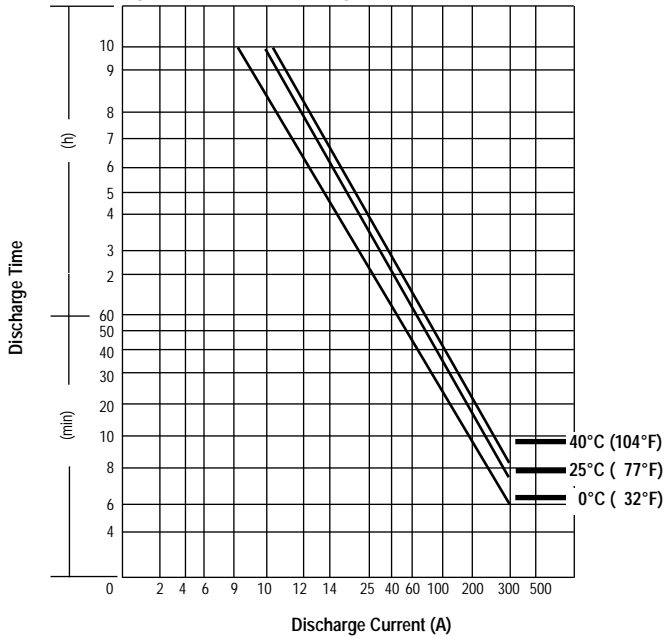
To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

CONSTANT CURRENT & POWER DISCHARGE RATINGS

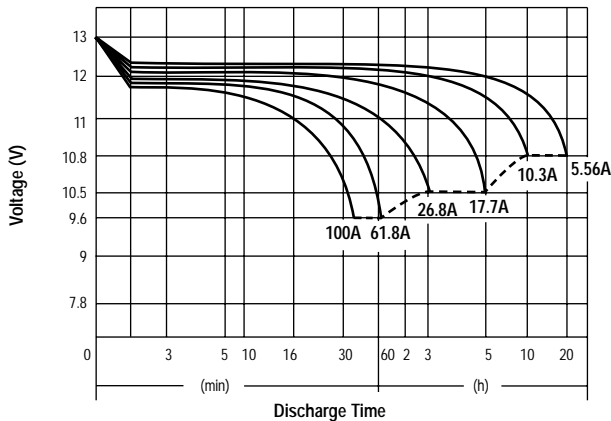
Model	Final	AMPS/WATTS PER CELL @ 25°C													
		5 min		10 min		15 min		20 min		30 min		45 min		60 min	
		A	W	A	W	A	W	A	W	A	W	A	W	A	W
12V103-FR	1.80V	194	632	166	468	144	355	127	296	104	221	75	156	61	123
	1.75V	222	638	180	471	156	368	139	301	110	226	81.5	162	61	126
	1.67V	253	703	206.6	502	180	386	152	312	116.7	234	80.7	168	61.8	130
	1.60V	313	730	228	515	187	396	152	321	118.5	240	82.4	173	61.2	134

PERFORMANCE CHARACTERISTICS

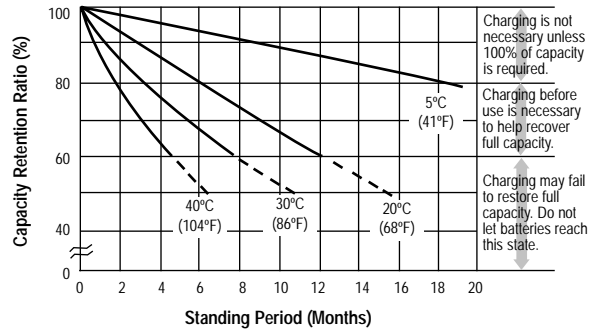
Discharge Time vs. Discharge Current



Discharge Characteristics



SELF-DISCHARGE & STORAGE

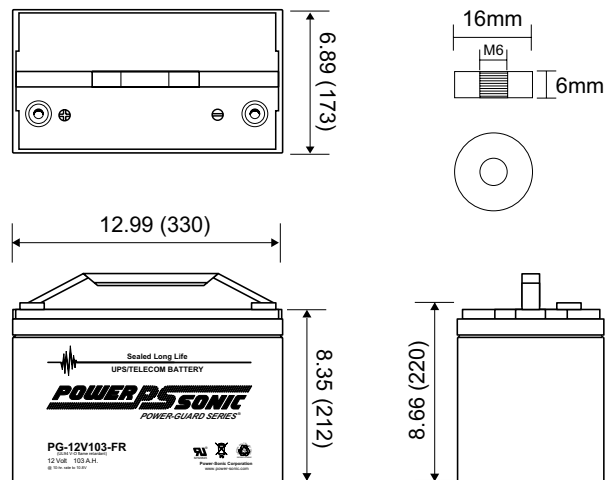


CHARGING

Cycle Applications: Limit initial current to 31A. 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 1A (0.01C).

"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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