

PS-12400 12 Volt 40.0 AH

Rechargeable Sealed Lead Acid Battery

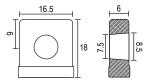




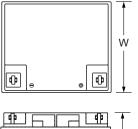
Terminals

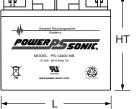
(mm)

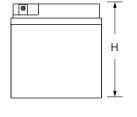
 NB4: Heavy duty terminal posts with nut and bolt fasteners



Physical Dimensions: in (mm)







L: 7.76 (197) **W**: 6.50 (165) **H**: 6.69 (170) **HT**: 6.69 (170)

Tolerances are +/-0.04 in. (+/-1mm) and +/-0.08 in. (+/-2mm) for height dimensions. All data subject to change without notice.

Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

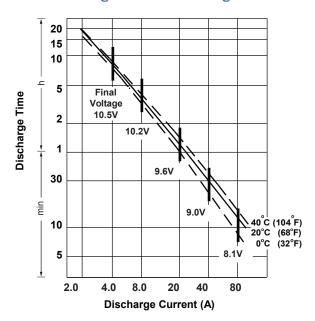
Performance Specifications

Nominal Capacity 40.0 AH 10-hr. (3.8A to 10.50 volts) 38.0 AH 5-hr. (6.7A to 10.20 volts) 33.5 AH 1-hr. (24A to 9.00 volts) 24.0 AH 15-min. (74.1A to 9.00 volts) 18.5 AH Approximate Weight 29.10 lbs. (13.20 kg) Energy Density (20-hr. rate) 1.42 W-h/in3 (86.80 W-h/l) Specific Energy (20-hr. rate) 16.49 W-h/lb (36.36 W-h/kg) Internal Resistance (approx.) 10 milliohms Max Discharge Current (7 Min.) 120.0 amperes Max Short-Duration Discharge Current (10 Sec.) 380.0 amperes Shelf Life (% of nominal capacity at 68 ° F (20 ° C)) 97% 3 Months 91% 6 Months 83% Operating Temperature Range -4 ° F (-20 ° C) to 122 ° F (50 ° C)	Nominal V	/oltage	12 volts (6 cells)					
10-hr. (3.8A to 10.50 volts)	Nominal Capacity							
5-hr. (6.7A to 10.20 volts)	20-hr.	(2A to 10.50 volts)	40.0 AH					
1-hr. (24A to 9.00 volts) 24.0 AH 15-min. (74.1A to 9.00 volts) 18.5 AH Approximate Weight 29.10 lbs. (13.20 kg) Energy Density (20-hr. rate) 1.42 W-h/in3 (86.80 W-h/l) Specific Energy (20-hr. rate) 16.49 W-h/lb (36.36 W-h/kg) Internal Resistance (approx.) 10 milliohms Max Discharge Current (7 Min.) 120.0 amperes Max Short-Duration Discharge Current (10 Sec.) 380.0 amperes Shelf Life (% of nominal capacity at 68°F (20°C)) 97% 3 Months 91% 6 Months 83% Operating Temperature Range	10-hr.	(3.8A to 10.50 volts)	38.0 AH					
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1 Month 97% 3 Months 91% 6 Months 83% Operating Temperature Range	Max Shor	t-Duration Discharge Current (1	.0 Sec.) 380.0 amperes					
3 Months	Shelf Life	(% of nominal capacity at 68°F (2	O°C))					
6 Months	1 Mont	h						
Operating Temperature Range	3 Mont	hs	91%					
	6 Mont	hs	83%					
Charge4°F (-20°C) to 122°F (50°C)	Operating	g Temperature Range						
	Charge		4°F (-20°C) to 122°F (50°C)					
Discharge40°F (-40°C) to 140°F (60°C)	Dischai	rge	40°F (-40°C) to 140°F (60°C)					
Case	Case		ABS Plastic					
	Power-So	nic Chargers	PSC-124000A, 124000A-C					
Power-Senie Chardere DSC 12/1000 12/1000 C	LOMEI-20	ilic cliargers	F30-124000A, 124000A-C					



Constant Power Discharge Ratings										
MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C								
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	60 MIN		
PS-12400	1.75	270	183	140	115	86	64	49		
	1.70	278	187	143	116	87	65	50		
	1.67	280	189	145	118	88	66	52		

Discharge Time vs. Discharge Current



Charging

Cycle Applications: Limit initial current to 12A. Charge until battery voltage

(under charge) reaches 14.4 to 14.7 volts at 68° F (20° C). Hold at 14.4 to 14.7 volts until current drops to under 400mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

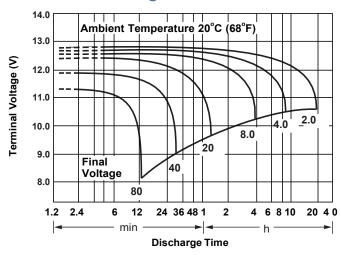
"Float" or "Stand-By" Service: Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Note: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

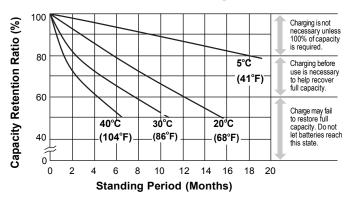
Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

Discharge Characteristics



Shelf Life & Storage



Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

