



# Rechargeable Sealed Lead-Acid Battery

## PSG-Series 450, 480, 625, 650, 680

(Suitable Alternatives to Hawker Monobloc Batteries)

### Features:

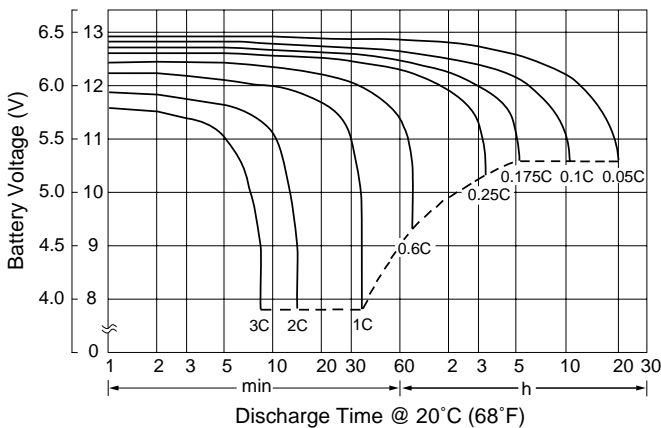
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill proof construction allows safe operation in any position.
- Power/volume ratio yielding unrivaled energy density.
- Rugged plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B.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



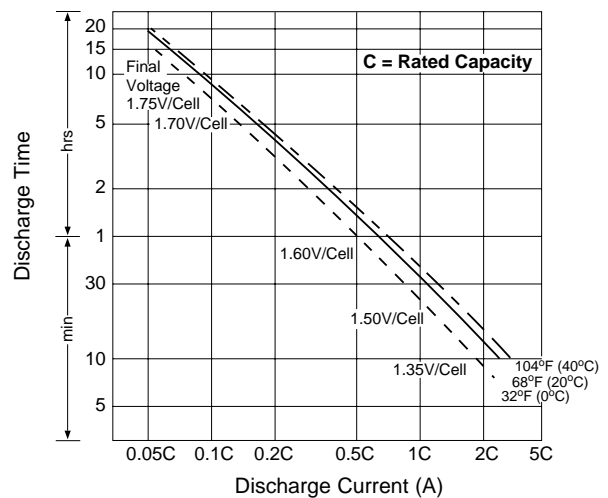
### SPECIFICATIONS:

Model	Nominal Voltage V	Nominal Capacity A.H.	Current @ 20 hr. rate mA	Length		Width		Height		Ht. Over Terminal		Weight		Standard Terminals
				in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	
PSG-450	4	5.0	250	3.54	90	1.94	49	2.87	73	2.87	73	1.55	0.70	F2
PSG-480	4	8.0	400	3.54	90	1.94	49	4.00	102	4.00	102	2.15	0.98	F2
PSG-625	6	2.5	125	4.15	105	1.63	41	2.70	69	2.70	69	1.25	0.57	F1
PSG-650	6	5.0	250	5.28	134	1.94	49	3.00	76	3.00	76	2.15	0.98	F2
PSG-680	6	8.0	400	5.28	134	1.94	49	3.99	101	3.99	101	3.20	1.45	F2

### PERFORMANCE CHARACTERISTICS:



Characteristic Discharge Curves



Discharge Time vs. Discharge Current

Model	PSG-450	PSG-480	PSG-625	PSG-650	PSG-680
Nominal Voltage	4 volts	4 volts	6 volts	6 volts	6 volts
Rated Capacity					
20 hour rate	5.0 A.H.	8.0 A.H.	2.5 A.H.	5.0 A.H.	8.0 A.H.
10 hour rate	4.4 A.H.	7.0 A.H.	2.2 A.H.	4.4 A.H.	7.0 A.H.
5 hour rate	4.0 A.H.	6.5 A.H.	2.0 A.H.	4.0 A.H.	6.5 A.H.
1 hour rate	3.0 A.H.	4.8 A.H.	1.5 A.H.	3.0 A.H.	4.8 A.H.
Approximate Weight – lbs. (kgs.)	1.43 (0.65)	2.09(0.93)	1.14 (0.52)	2.14 (0.97)	3.09 (1.40)
Energy Density – 20 hr. rate Watt-hrs./in3 (watt-hrs./l)	1.10 (62)	1.16 (71)	0.82 (51)	0.98 (60)	1.17 (72)
Specific Energy – 20 hr. rate Watt-hrs./lb (watt-hrs./kg.)	11.8 (26)	12.8 (29)	10.0 (22)	12.0 (27)	13.0 (28)
Internal Resistance Fully Charged Battery (Approx.)	15	11	34	20	20
Maximum Discharge Current	15 amps	24 amps	7.5 amps	15 amps	24 amps
Short Duration – 5 sec.	50 amps	80 amps	25 amps	50 amps	80 amps
Maximum Charge Current	1.0 amps	1.6 amps	0.5 amps	1.0 amps	1.6 amps
Final Charge Current	50 mA	80 mA	25 mA	50 mA	80 mA
Terminals	F2	F2	F1	F2	F2
Case	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
<b>Additional Specifications (For All Models)</b>					
Terminal Configuration	<b>F1:</b> Quick disconnect tabs, 0.187" x 0.032". Mate with AMP. INC. FASTON "187" series <b>F2:</b> Quick disconnect tabs, 0.250" x 0.032". Mate with AMP. INC. FASTON "250" series				
Shelf Life – % of nominal capacity at 68°F (20°C)	1 month ..... 97% 3 month ..... 91% 6 month ..... 83%				
Operating Temperature Range	Charge ..... -4°F (-20°C) to 122°F (50°C) Discharge ..... -4°F (-20°C) to 140°F (60°C)				

**CHARGING**

**Cycle Applications:** Charge until battery voltage (under charge) reaches 2.45 to 2.50 volts per cell at 68°F (20°C). Hold at 2.45 to 2.50 volts per cell until current drops to approximately 0.01C rate ("C" = capacity of battery). Battery is fully charged under these conditions, and charger should either be disconnected or switched to "float" voltage.

**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 2.30 to 2.40 volts per cell 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 after 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

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



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