SH1250 12V 5Ah (20Hr)

Sealed Lead-Acid (SLA) Battery

General Features

- Non-spillable contruction design
- Long life span 5 years in floating condition
- High quality AGM separator: extend cycle life and prevents micro short circuit
- 99.99% pure lead plates ensure high quality and high reliability
- ABS material
- Valved Regulated Lead-Acid (VRLA) battery

Applications

- Fire & Security
- Alarm & Portable lights
- Power tools & Toys
- Emergency power systems



Specifications

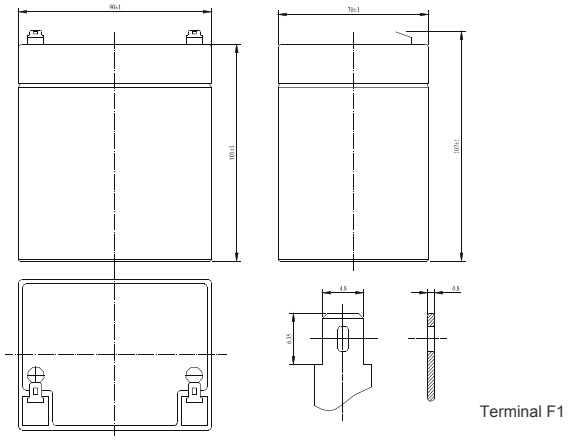
Nominal Voltage	12 V
Number of cell	6
Design Floating Life @25°C	5 years
Nominal Capacity @25°C	
20 hour rate (0.25A, 10.8V)	5 Ah
10 hour rate (0.48A, 10.8V)	4.8 Ah
5 hour rate (0.89A, 10.5V)	4.45 Ah
1 hour rate (3.30A, 9.6V)	3.30 Ah
Internal Resistance	≤ 35mΩ
Self-Discharge @25°C per month	3%
Operating Temperature: Discharge	-15°C~45°C
Charge	-15°C~45°C
Storage	-15°C~45°C
Maximum Discharge Current @25°C	30A (5s)
Charge (Constant Voltage) @25°C	
Cycle Use	14.4 - 14.8 V
Maximum charging current	1.5A
Temperature compensation	-30mV/°C
Standby Use	13.5 - 13.8 V
Temperature compensation	-20mV/°C

Battery Construction

Positive plate:	Thick high Sn low Ca grid with special paste
Negative plate:	Balanced Pb-Ca grid improved recombination efficiency
Container and cover:	ABS-HB
Safety valve:	Flame Si-Rubber and aging resistance
Terminal:	F1
Separator:	Advanced AGM separator for high pressure cell design
Electrolyte:	Dilute high purity sulfuric acid
Pillar seal:	Two layers epoxy resin seal

Dimensions and Terminal

Length (mm/inch)	90/3.54
Width (mm/inch)	70/2.76
Height (mm/inch)	101/3.98
Total height (mm/inch)	107/4.22
Weight (kg/lbs)	1.6/3.53



Discharge Constant Current (Amperes at 25°C)

F.V/Time	15min	30min	1h	3h	5h	10h	20h
1.60V	8.28	5.50	3.30	1.41	0.94	0.52	0.28
1.65V	8.13	5.40	3.24	1.39	0.93	0.51	0.27
1.70V	7.98	5.30	3.18	1.36	0.91	0.50	0.27
1.75V	7.83	5.20	3.12	1.34	0.89	0.49	0.26
1.80V	7.52	5.00	3.00	1.28	0.86	0.48	0.25

Discharge Constant Power (Watts at 25°C)

F.V/Time	15min	30min	1h	3h	5h	10h	20h
1.60V	15.93	10.59	6.35	2.72	1.81	1.01	0.53
1.65V	15.64	10.40	6.24	2.67	1.78	0.99	0.52
1.70V	15.35	10.20	6.12	2.62	1.75	0.97	0.51
1.75V	15.06	10.01	6.01	2.57	1.72	0.95	0.50
1.80V	14.48	9.63	5.78	2.47	1.65	0.92	0.48

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