

HSL1116

Technical Specifications

Nominal Voltage	12V
Nominal Capacity	22Ah (20 Hr Rate to 1.67/cell)
Nominal Power	90W/Cell (15 min.)
Chemistry	Lead Acid -AGM

Physical Specifications

Length	181mm	7.13in
Width	77mm	3.03in
Height	168mm	6.61in
Height w/Terminal	168mm	6.61in
Weight (+/- 5%)	6.12Kg	13.50lbs
Terminal Type	NUT & BOLT	
Case Material	FR	

Charging Specifications

Charge Voltage	Battery	Per Cell
Float	13.5V~13.8V	2.25V~2.30V
Cycle	14.4V~15.0V	2.40V~2.50V
Max. Charge Current	6.6A	

Capacity Specifications

5 Second Discharge Current	330A	
Self Discharge (to 80% capacity)	3 Months	91%
	6 Months	82%
	12 Months	64%
Internal Resistance	7.5mΩ(25°C)	

Temperature Specifications

Operating Temperature Capability **-40° F (-40° C) to 140° F (60° C)**

Recommended parameters for optimal battery life and performance:

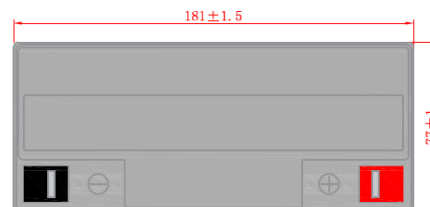
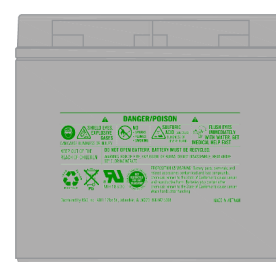
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

Storage: 50° to 77° F (10° C to 25° C)



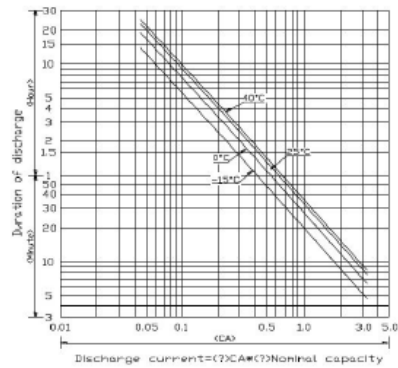
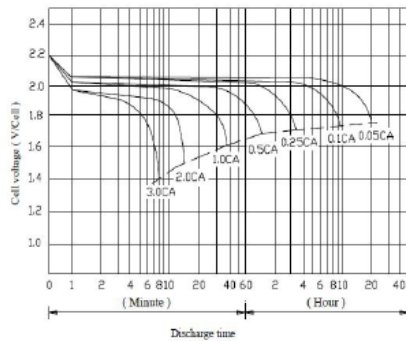
FEATURES:

- Used almost exclusively in backup or cranking systems
- Provide high percent of capacity in <1 hour
- More efficient connections between plates & terminals
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free

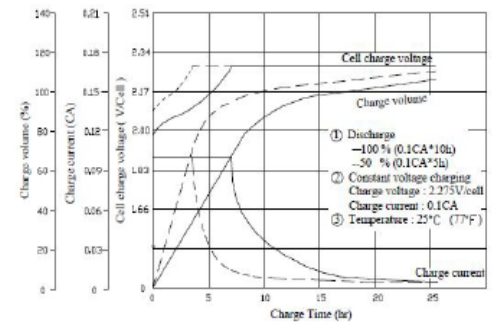


Discharging Current VS Discharging Time

Discharge Characteristics



Charging Characteristics for Standby Use



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	45.50	19.85	10.70	4.86	3.33	1.86	1.03
1.80V/cell	58.50	21.47	11.68	5.25	3.57	1.96	1.08
1.75V/cell	65.20	22.39	12.28	5.43	3.70	2.02	1.10
1.70V/cell	68.90	22.90	12.60	5.50	3.77	2.04	1.11
1.67V/cell	71.00	23.20	12.79	5.54	3.82	2.05	1.12
1.60V/cell	72.40	23.34	12.90	5.55	3.84	2.06	1.11

Constant Power Discharge Characteristics: W (25°C)

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	83.30	38.65	21.27	9.68	6.62	3.68	2.06
1.80V/cell	106.90	41.81	22.84	10.34	7.02	3.84	2.14
1.75V/cell	124.80	43.55	23.61	10.69	7.28	3.96	2.18
1.70V/cell	132.80	44.43	24.05	10.82	7.41	4.01	2.21
1.67V/cell	142.20	44.88	24.34	10.90	7.47	4.03	2.22
1.60V/cell	149.10	45.10	24.53	10.95	7.49	4.04	2.23

