



**SEALED VRLA MONOBLOC
AGM BATTERIES**

HR-12100

**VALVE REGULATED
LEAD ACID BATTERY**

12V 420WATTS/CELL

@ 15MIN to 1.67 VPC

12V 100AH @ 10 HR to 1.80VPC

12V 108AH @ 20 HR to 1.75VPC

FOR APPLICATION:

UPS

SWITCHGEAR

INDUSTRIAL DC POWER



**HIGH
PERFORMANCE**

Innovative Features

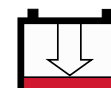
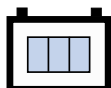
- ◆ 12 years design life in float applications @ 25°C(77°F).
- ◆ UL Recognized component.
- ◆ Valve regulated lead acid battery (VRLA).
- ◆ High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- ◆ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- ◆ One-way relief valve, Explosion Resistant.
- ◆ Heavy duty threaded copper alloy terminals for ease of assembly, reduced maintenance and increased safety.
- ◆ Patented long life alloy having the lowest calcium levels industry-minimizing grid corrosion, reducing gassing, and extending battery life.
- ◆ Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.
- ◆ Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L. 924.
- ◆ Horizontal or vertical operation.
- ◆ Multicell design for ease of installation and maintenance.
- ◆ Standard: Reinforced ABS (UL 94HB) container and cover
Optional: Flame-retardant reinforced ABS case and cover compliant with U.L.94 V-0 with an Oxygen Limiting Index of greater than 28%.

12 VOLTS - 420WATTS @ 15 MIN RATE

Constant Power Discharging Ratings - Watts Per Cell @ 25°C (77°F)

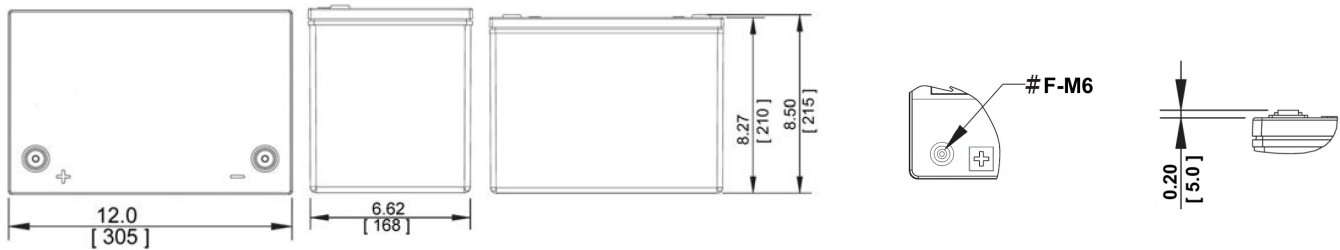
End Point Volts/Cell	5min	10min	15min	20min	30min	40min	45min	50min	60min	90min
1.67	605	450	420	295	236	192	173	157	135	95.8

For UPS / Switchgear / Industrial DC Power



High Rate Range VRLA

EverExceed®
power your applications



Length : 305mm Width : 168mm Height : 215mm

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current (5s)	Short Circuit Current	Internal resistance (mΩ)
6	12.84	70.4lbs 31.0kg	SG = 1.300	1200Amps	3500 Amps	4.5

Capacity	420Watts per all at the 15 minute rate to 1.67 volts per cell at 25°C (77°F). 100Ah @ 10 hr. rate to 1.80 volts per cell @ 25°C (77°F). 108Ah @ 20 hr. rate to 1.75 volts per cell @ 25°C (77°F).
Applicable Operating Temperature Range	-40°F (-40°C) to +158°F (70°C).
Ideal Operating Temperature Range	+68°F (+20°C) to +82.4°F (28°C).
Floating Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F).
Recommended Maximum Charging Current Limit	25 Amperes (0.25C10 Amperes).
Equalization and Cycle Service Charging Voltage	14.1 to 14.4 VDC/unit Average at 25°C (77°F).
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P). Maximum current allowed = 0.50 amperes RMS (C/10) to 1.8VPC.
Self Discharge	EverExceed High Rate Range batteries may be stored for up to 12 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Accessories	Inter unit connectors racks and cabinet systems are available.
Terminal: Inserted	Threaded copper alloy insert terminal
Terminal Hardware Initial Torque: Inserted Terminal	9 N-m

Constant Power Discharging Ratings - Watts Per Cell @ 25°C (77°F)										
End Point Volts/Cell	5min	10min	15min	20min	30min	40min	45min	50min	60min	90min
1.75	558	398	328	278	220	182	165	151	131	93.7
1.70	595	408	380	286	229	186	169	155	133	94.6
1.67	605	450	420	295	236	192	173	157	135	95.8

Constant Current Discharging Ratings - Ampere Per Cell @ 25°C (77°F)										
End Point Volts/Cell	1hr	2hr	3hr	5hr	8hr	10hr	12hr	20hr	24hr	72hr
1.85	62.5	35.7	24.6	17.0	11.5	9.59	8.22	5.31	4.45	1.56
1.80	68.3	38.6	26.1	18.0	12.2	10.00	8.61	5.38	4.66	1.61
1.75	69.9	39.5	27.0	18.4	12.5	10.3	8.85	5.40	4.76	1.63

Note: Batteries to be mounted with 0.39 in (1.00 cm) spacing minimum and free air ventilation.
Specifications subject to change without notification.

