



# HIGH PERFORMANCE

SEALED VRLA MONOBLOC  
AGM BATTERIES



## HR-12200

VALVE REGULATED  
LEAD ACID BATTERY

12V 700WATTS/CELL  
@ 15MIN to 1.67 VPC

12V 200AH @ 10 HR to 1.80VPC  
12V 228AH @ 20 HR to 1.75VPC

FOR APPLICATION:  
UPS  
SWITCHGEAR  
INDUSTRIAL DC POWER

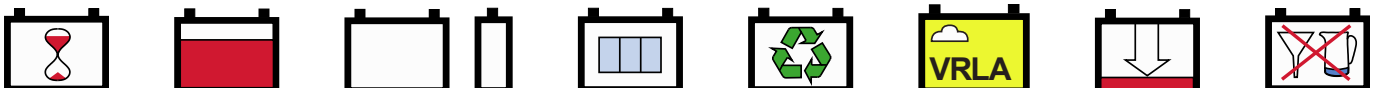
### Innovative Features

- ☑ One-way relief valve, Explosion Resistant.
- ☑ Patented long life alloy having the lowest calcium levels industry-minimizing grid growth, reducing gassing, and extending battery life.

- ☑ 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.
- ☑ Operates at a low internal pressure.
- ☑ Heavy duty threaded copper alloy terminals for ease of assembly, reduced maintenance and increased safety.
- ☑ Advanced lead tin calcium alloy, reduces grid corrosion and promotes long 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%.

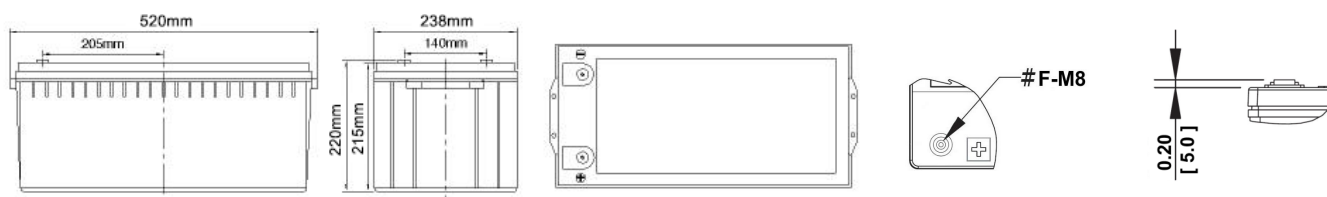
12 VOLTS - 700WATTS @ 15 MIN RATE										
Constant Power Discharging Ratings - Watts Per Cell @ 25°C (77°F)										
End Point Volts/Cell	5min	10min	15min	20min	30min	40min	45min	50min	60min	90min
1.67	1169	836	700	598	465	380	346	318	296	225

For UPS / Switchgear / Industrial DC Power



# High Rate Range VRLA

**EverExceed**<sup>®</sup>  
power your applications



Length : 520mm    Width : 238mm    Height : 220mm

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped 60 Hz(Ω)
6	12.84	143lbs 65.0kg	SG = 1.300	1270Amps	6000 Amps	0.0018

<b>Capacity</b>	700Watts per all at the 15 minute rate to 1.67 volts per cell at 25°C (77°F). 200Ah @ 10 hr. rate to 1.80 volts per cell @ 25°C (77°F). 228Ah @ 20 hr. rate to 1.75 volts per cell @ 25°C (77°F).
<b>Applicable Operating Temperature Range</b>	-40°F (-40°C) to +158°F (70°C).
<b>Ideal Operating Temperature Range</b>	+68°F (+20°C) to +82.4°F (28°C).
<b>Floating Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C (77°F).
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes (45.6 amperes @ 100% depth of discharge) @ 20 hr. rate to 1.75VPC.
<b>Equalization and Cycle Service Charging Voltage</b>	14.4 to 14.8 VDC/unit Average at 25°C (77°F).
<b>Maximum AC Ripple (Charger)</b>	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 = 11.4 amperes RMS (C/20) to 1.75VPC.
<b>Self Discharge</b>	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.
<b>Accessories</b>	Inter unit connectors racks and cabinet systems are available.
<b>Terminal: Inserted</b>	Threaded copper alloy insert terminal
<b>Terminal Hardware Initial Torque: Inserted Terminal</b>	11 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	1088	801	645	556	430	348	325	296	276	206
1.70	1153	825	675	580	452	369	340	310	289	217
1.67	1169	836	700	598	465	380	346	318	296	225

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	125	71.3	51.7	34.1	23.1	19.2	16.5	10.6	8.91	3.12
1.80	136	77.3	54.9	35.9	24.2	20.0	17.3	11.1	9.33	3.22
1.75	140	79.1	56.8	36.8	25.1	20.7	17.7	11.4	9.52	3.26

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

