



# HIGH PERFORMANCE

## SEALED VRLA MONOBLOC AGM BATTERIES

# UHR 12-36W

## VALVE REGULATED LEAD ACID BATTERY

### Innovative Features

- ◆ 12 years design life @ 25°C(77°F);
- ◆ Ultra high energy density designed, specially for high current and high power discharge UPS system;
- ◆ 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 and higher capacity;
- ◆ Heavy duty threaded copper alloy terminals for ease of assembly, reduced maintenance and increased safety;
- ◆ Advanced high tin low calcium lead alloy, minimizing plate grid corrosion and promotes long battery life;
- ◆ Flame arresting, low pressure safety release venting system for individual cells, recognized per UL94V-0;
- ◆ Horizontal or vertical operation;
- ◆ One-way fire proof relief valve, Explosion Resistant;
- ◆ Patented long life alloy having the lowest calcium levels industry minimizing grid growth and reducing gassing;
- ◆ Standard: Reinforced ABS (UL 94HB) container;
- ◆ Optional: Flame-retardant reinforced ABS case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28%;
- ◆ Up to 12 months shelf life due to low self-discharge rate (less than 3%/month at 20°C);

### Normal Capacity

20 hour rate (450 mA to 10.5 volts): 9.00 Ah  
 10 hour rate (862 mA to 10.5 volts): 8.62 Ah  
 5 hour rate (1.58 A to 10.2 volts): 7.88 Ah  
 1 hour rate (6.75 A to 9.00 volts): 6.75 Ah

### Application:

- ◆ UPS
- ◆ Switchgear
- ◆ Industrial DC power
- ◆ Data center
- ◆ Finance
- ◆ Hospital



### 12 VOLTS - 36.0 WATTS @ 15 MIN RATE

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

End Point Volts/Cell	5min	10min	15min	20min	25min	30min	60min	90min
1.67	56.7	44.8	36.0	30.0	24.8	21.6	10.8	8.41

## For UPS / Switchgear / Industrial DC Power



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### Branch Company:

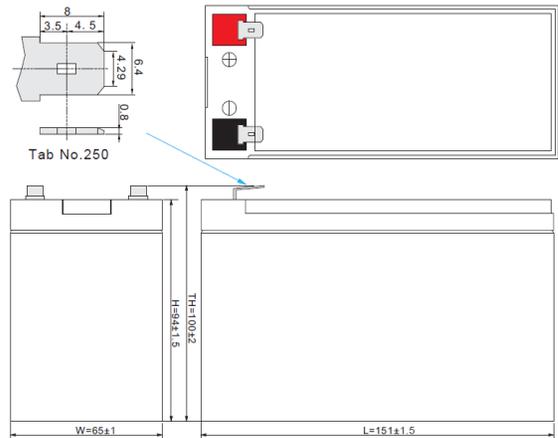
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Electrical Specifications	
Cells Per Unit	6
Voltage Per Unit	12.84V
Weight	2.47kgs 4.53lbs
Electrolyte	SG = 1.300
Maximum Discharge Current@5s	135 Amps
Short Circuit Current	355 Amps
Internal Resistance	18(mΩ)



Length : 151mm

Width : 65mm

Height : 94mm

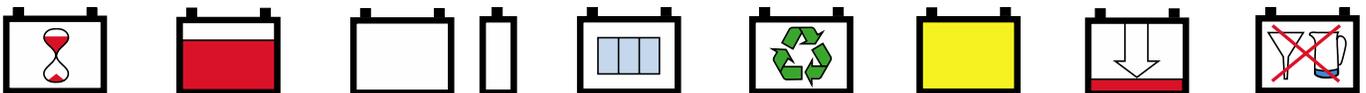
Total Height : 100mm

Capacity	36.0Watts per all at the 15 minute rate to 1.67 volts per cell at 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	1.8 Amperes (0.2C <sub>20</sub> 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 = 0.13 amperes RMS (C/10) to 1.8VPC.
Self Discharge	EverExceed Ultra High Rate Range batteries may be stored for up to 12 months at 20°C (68°F) and then a freshening charge is required. For higher temperatures the recharge time interval will be shorter.
Accessories	Inter unit connectors racks and cabinet systems are available.
Terminal: Inserted	Threaded copper alloy insert terminal

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

End Point Volts/Cell	5min	10min	15min	20min	25min	30min	60min	90min
1.75	48.5	43.9	34.8	29.3	23.8	19.9	9.91	7.63
1.70	55.8	44.2	35.0	29.5	24.2	20.9	10.5	8.08
1.67	56.8	44.8	36.0	30.0	24.8	21.6	10.8	8.41

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



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