

EXCELLENT CYCLING ABILITY FOR



DP-12165

SEALED VRLA MONOBLOC AGM BATTERIES
VALVE REGULATED LEAD ACID BATTERY
FOR CYCLING APPLICATIONS

12V 165AH @ 20 HR RATE to 1.75VPC 12V 187AH @ 100 HR RATE to 1.75VPC

LONG DURATION

SOLAR / PHOTOVOLTAIC
WIND GENERATION
INVERTER / MOBILITY
TELECOMMUNICATION

APPLICATIONS

Innovative Features

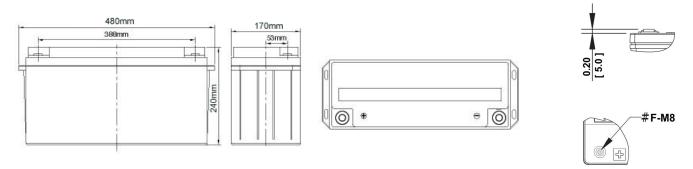
- Thick positive plate design and high Tin alloy~12 years design life @ 20°C(68°F).
- UL Recognized component.
- Valve regulated lead acid battery (VRLA).
- High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- Proprietary Fixed Orifice Plate Pasting technology 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 insert copper terminals for ease of assembly, reduced maintenance and increased safety.
- Advanced lead tin calcium alloy, reduces grid corrosion and promotes long battery life.
- Standard: Reinforced ABS (UL 94HB) container and cover.

 Optional: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.
- 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.

12 VOLTS - 165 AMPERE HOUR @ 20 HOUR RATE												
	AH Capacity to 1.75VPC @ 20°C (68°F)											
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	100hr	
1.75	105	114	121	127	131	143	148	151	165	167	187	

Deep Cycle AGM Range





Length: 480mm	Width: 170mm	Height: 240mm
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Electrical Specifications									
Cells Per Unit Voltage Per Unit Weight Electrolyte Maximum Discharge Current Short Circuit Current Ohms Imp									
6	12.84	99.2lbs 45.0kg	SG = 1.300	1048 Amps	4200 Amps	0.0025			

Capacity	165 Ah @ 20 hr. rate to 1.75 volts per cell @ 20°C (68°F). 187 Ah @ 100 hr. rate to 1.75 volts per cell @ 20°C (68°F).
Applicable Operating Temperature Range	-40°C (-40°F) to +70°C (158°F).
Ideal Operating Temperature Range	+20°C (+68°F) to +30°C (+86°F).
Floating Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F).
Recommended Maximum Charging Current Limit	0.25C20 amperes (41.3 amperes @ 100% depth of discharge) @ 20 hr. rate to 1.75VPC.
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 = 8.25 amperes RMS (C/20) to 1.75VPC.
Self Discharge	EverExceed Deep Cycle AGM 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 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	11 N-m

	Constant Power Discharging Ratings - Watts Per Cell @ 20°C (68°F)											
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	100hr	
1.85	124	100	72.7	57.9	48.2	32.7	27.2	23.3	15.5	13.0	3.42	
1.80	133	105	75.4	59.8	49.9	34.0	28.4	24.2	15.8	13.4	3.61	
1.75	135	107	77.6	61.9	50.7	34.9	29.0	24.7	16.2	13.8	3.74	

	Constant Current Discharging Ratings - Amperes Per Cell @ 20°C (68°F)											
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	100hr	
1.85	64.9	51.8	37.3	29.5	24.3	16.3	13.5	11.4	7.53	6.35	1.70	
1.80	69.1	55.0	39.4	30.7	25.4	17.2	14.4	12.2	8.07	6.80	1.83	
1.75	69.7	56.8	40.3	31.8	26.1	17.9	14.8	12.6	8.25	6.95	1.87	

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