

# EXCELLENT CYCLING ABILITY FOR SOLAR / PHOTOVOLTAIC WIND GENERATION INVERTER / MOBILITY TELECOMMUNICATION APPLICATIONS



**DP-1226**

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

**12V 26.0AH @ 20 HR RATE to 1.75VPC**

**12V 28.6AH @ 100 HR RATE to 1.75VPC**

# LONG DURATION

## Innovative Features

- ◆ Thick positive plate design and high Tin alloy~12 years design life @ 20°C(68°F).
- ◆ 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.
- ◆ Multicell design for ease of installation and maintenance.
- ◆ Horizontal or vertical operation.

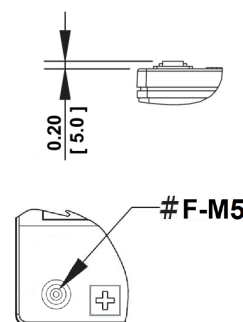
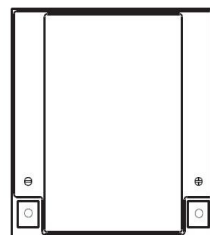
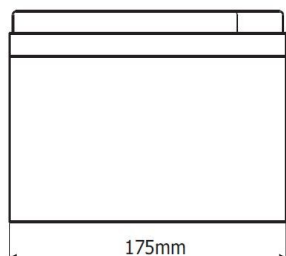
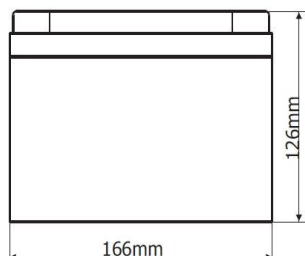
**12 VOLTS - 26.0 AMPERE HOUR @ 20 HOUR RATE**

**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	16.9	17.1	18.2	19.2	19.7	21.5	22.5	23.0	26.0	26.5	28.6

# Deep Cycle AGM Range

**EverExceed®**  
power your applications



**Length: 175mm    Width: 166mm    Height: 126mm**

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current(5s)	Short Circuit Current	Internal Resistance Milli-ohms
6	12.84	16.5lbs 7.5kg	SG = 1.300	390 Amps	1182 Amps	12

<b>Capacity</b>	26.0 Ah @ 20 hr. rate to 1.75 volts per cell @ 20°C (68°F). 28.6 Ah @ 100 hr. rate to 1.75 volts per cell @ 20°C (68°F).
<b>Applicable Operating Temperature Range</b>	-40°C (-40°F) to +70°C (158°F).
<b>Ideal Operating Temperature Range</b>	+20°C (+68°F) to +30°C (+86°F).
<b>Floating Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 20°C (77°F).
<b>Recommended Maximum Charging Current Limit</b>	5.2Amperes ( 0.20C20 Amperes )
<b>Equalization and Cycle Service Charging Voltage</b>	14.1 to 14.4 VDC/unit Average at 20°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 = 0.13amperes RMS (C/20) to 1.75VPC.
<b>Self Discharge</b>	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.
<b>Accessories</b>	F-M6 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>	5 N-m

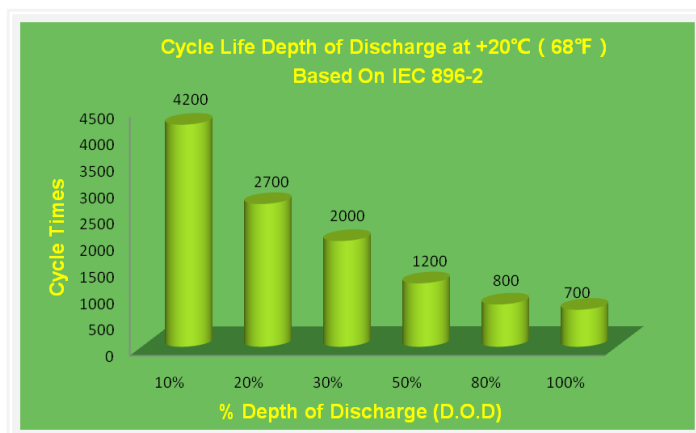
Constant Power Discharging Ratings - Watts Per Cell @ 20°C (68°F)											
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	100hr
1.85	18.7	15.2	10.8	8.64	7.17	5.00	4.18	3.66	2.44	2.01	0.54
1.80	21.4	15.9	11.5	9.02	7.56	5.19	4.28	3.70	2.51	2.08	0.56
1.75	22.1	16.3	11.8	9.29	7.70	5.27	4.37	3.79	2.52	2.12	0.57

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	10.3	7.85	5.60	4.43	3.66	2.51	2.14	1.83	1.21	1.03	0.27
1.80	11.0	8.40	5.91	4.64	3.85	2.66	2.19	1.89	1.22	1.04	0.28
1.75	11.3	8.53	6.08	4.79	3.93	2.69	2.25	1.91	1.30	1.11	0.29

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

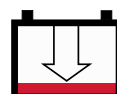
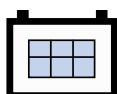
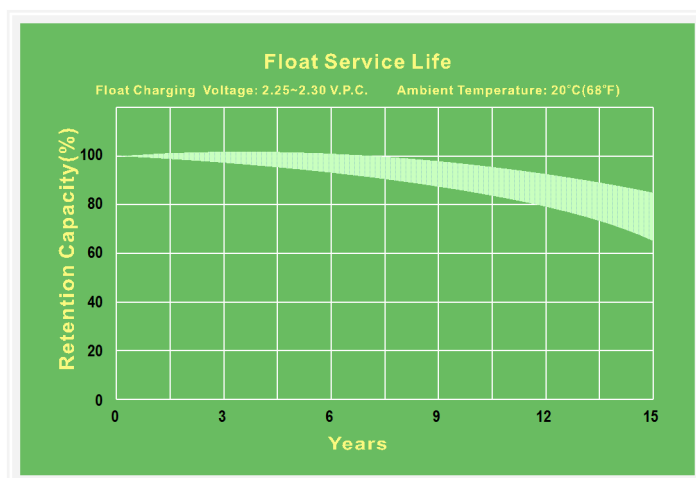
# Deep Cycle AGM Range

**EverExceed®**  
power your applications



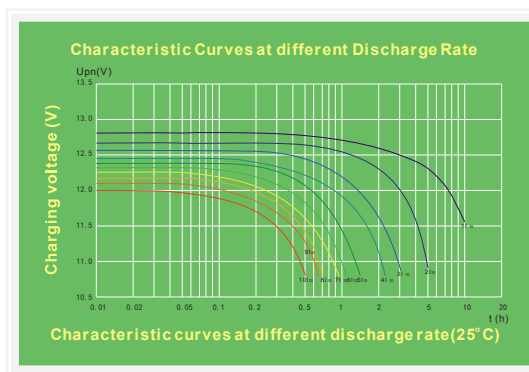
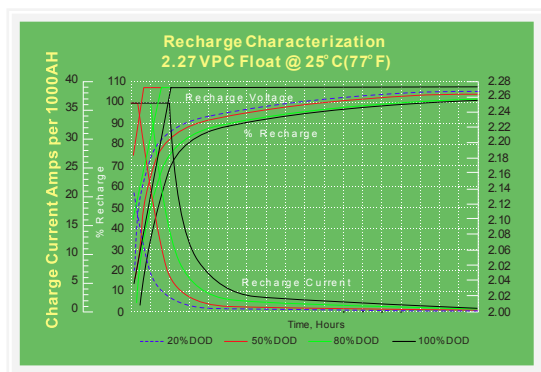
**TYPICAL CYCLIC PERFORMANCE**

CAPACITY WITHDRAWN	CYCLES
100%	700
80%	800
50%	1200
25%	2100
10%	4200



# Deep Cycle AGM Range

**EverExceed®**  
power your applications

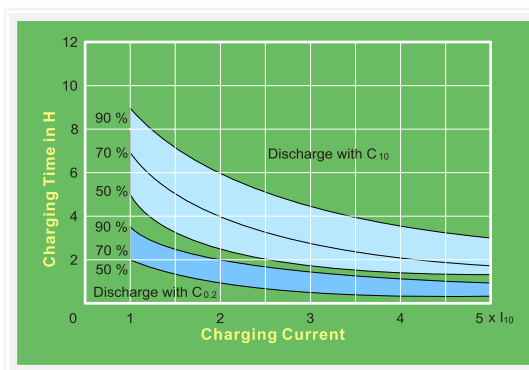
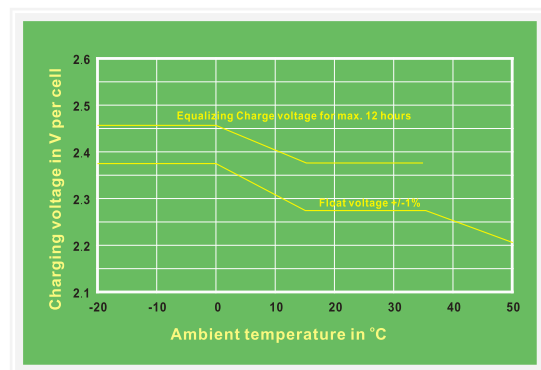


## Float Voltage & charging

Constant Voltage charging is recommended  
Recommended float voltage: 2.27VPC @ 25°C (77°F)  
Float Voltage Range: 2.25VPC to 2.30 VPC @ 25°C (77°F)  
Equalize voltage: 2.35VPC for 12 Hours

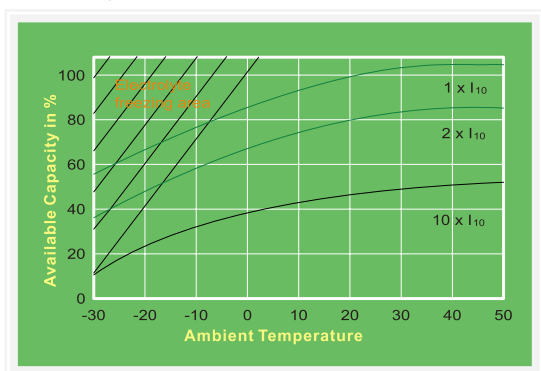
Temperature compensation:

Apply for temperature range of 0°C / 32°F to 40°C / 104°F. Sub tract 3 mV / °C / cell or 1.7 mV / °F / cell, above 25°C / 77°F. Add 3mV / °C / cell or 1.7 mV / °F / cell, below 25°C / 77°F.

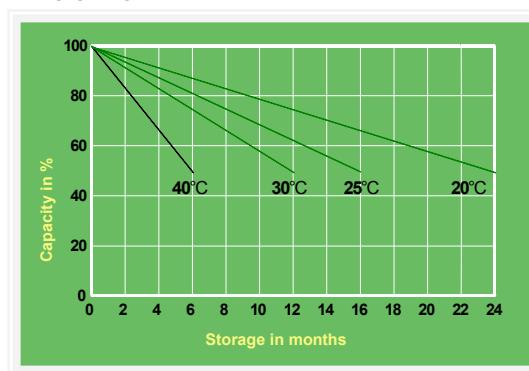


For charging 2.27 V/cell is recommended. The charging voltage must be compensated according to the curve for continuously different battery ambient temperature.

Recharging time in dependence of charging current (guide values) for up to 50, 70 and 90% of capacity at 25°C and with a charging voltage of 2.27 V/cell.



Extracted capacity in relation to the temperature.



Self-discharge in relation to the storage temperature.

