

EXCELLENT CYCLING ABILITY FOR



DP-6400

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

6V 400AH @ 20 HR RATE to 1.75VPC 6V 440AH @ 100 HR RATE to 1.75VPC

LONG DURATION

SOLAR / PHOTOVOLTAIC
WIND GENERATION
INVERTER / MOBILITY
TELECOMMUNICATION
APPLICATIONS

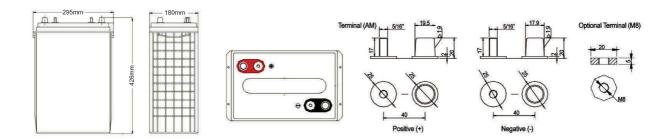
Innovative Features

- Thick positive plate design and high Tin alloy~12 years design life @ 20°C(68°F).
- 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.

	6 VOLTS - 400 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	256	273	291	305	315	345	359	368	400	408	440

Deep Cycle AGM Range





Length: 295mm Width: 180mm Height: 426mm

Electrical Specifications									
Cells Per Unit	ells Per Unit Voltage Per Unit Weight Electrolyte Maximum Discharge Current(5s) Short Circuit Current Internal Resista Milli-ohms								
3	6.42	118.0lbs 53.5kg	SG = 1.300	3600 Amps	8000 Amps	1.5			

Capacity	400 Ah @ 20 hr. rate to 1.75 volts per cell @ 20°C (68°F). 440 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	6.75 to 6.90 VDC/unit Average at 20°C (77°F).				
Recommended Maximum Charging Current Limit	80 Amperes (0.20C20 Amperes)				
Equalization and Cycle Service Charging Voltage	7.05 to 7.20 VDC/unit Average at 20°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 = 2.00 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	F-M8 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				

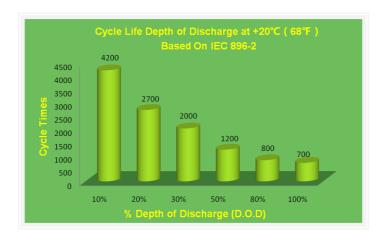
	Constant Power Discharging Ratings - Watts Per Cell @ 20°C (68°F)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	100hr
1.85	301	248	176	139	115	79.6	66.5	58.1	37.9	31.2	8.43
1.80	321	255	183	145	121	82.8	69.1	58.9	38.3	32.8	8.89
1.75	333	265	185	148	124	84.9	70.4	60.4	39.6	33.6	9.16

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	158	126	89.7	70.0	58.4	40.5	33.3	28.4	18.7	15.3	4.13
1.80	167	135	94.7	74.3	61.8	41.9	34.9	29.8	19.3	16.3	4.20
1.75	171	137	97.0	76.3	63.0	43.1	35.9	30.7	20.0	16.9	4.40

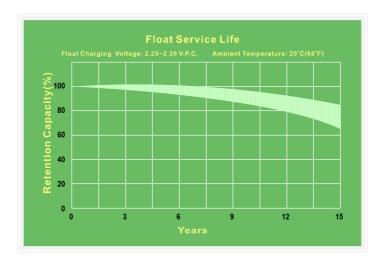
Note: Batteries to be mounted with 0.39 in (1.00 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.

Deep Cycle AGM Range





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













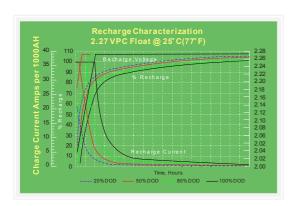


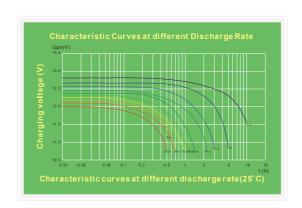




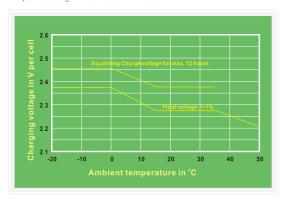
Deep Cycle AGM Range





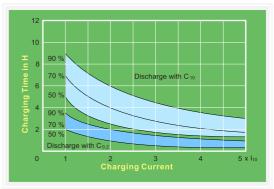


Float Voltage & charging

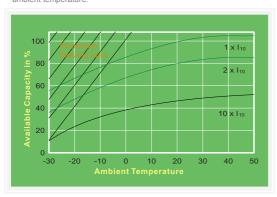


Temperature compensation:

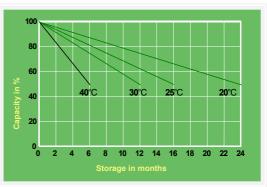
Apply for temperature range of 0°C / 32°F to 40°C / 104°F. Sub tract 3 mV / °C / cell or 1.7 mV / °F / cell, above 25°C / 77°F. Add 3mV / °C / cell or 1.7 mV / °F / cell, below 25°C / 77°F.



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.



Self-discharge in relation to the storage temperature.

















