

VR SOLAR®

For Renewable Energy Storage
100 Ampere-Hour Capacity



The VR Solar®, with its grid alloy and high paste density, provides superior performance in both high cycling and float applications. This VRLA/AGM battery is designed to be easy to install and maintain, and offers long life and exceptional performance.

FEATURES AND BENEFITS

- High density pasted plates for high cycle life
- Low calcium Lead/Tin alloy plates for efficient gas recombination for long life in both cycling and float applications
- High two-hour discharge rate for Grid-Tied UPS applications
- High-strength, leak-free polymer container allows for non-restricted shipping;
Water: non-hazardous per IMDG Amendment 27
Surface: non-hazardous per DOT-CFR title 49, 171-189 Air: IATA/ICAO, provision A67
- UL-recognized component
- Battery hardware included
- Excellent choice for both small stand alone PV systems and small hybrid systems

AVAILABLE OPTIONS

- Standard and EP racks with multiple tiers

DIMENSIONS

							Battery Termination	
							VRS12-100	
	A	B	C	D	E	F		
VRS12-100	13.42 (340.9)	12.75 (323.7)	6.80 (172.7)	6.54 (166.0)	8.40 (213.2)	8.52 (216.4)		

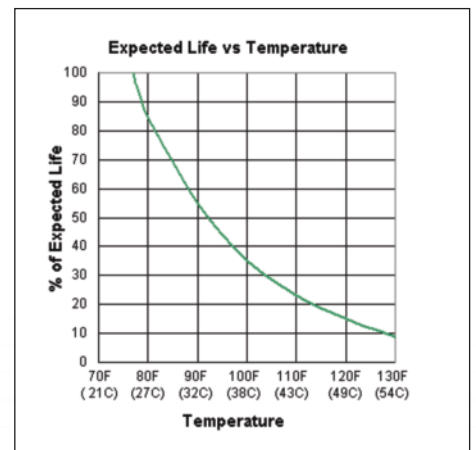
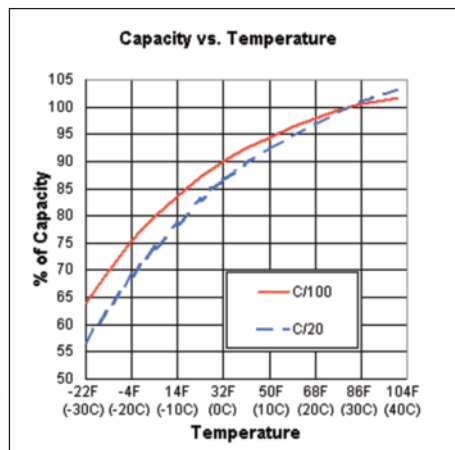
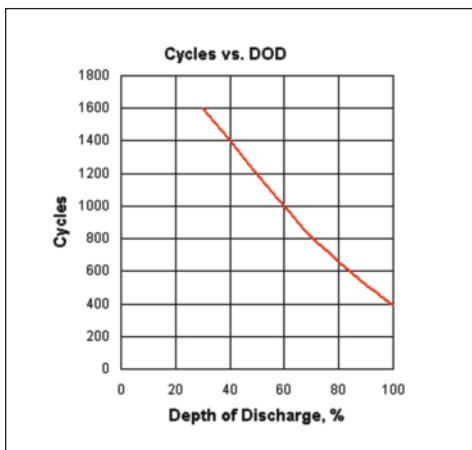
PERFORMANCE RATINGS

Model	Ampere Hour & Power to 1.75 Volts per cell @ 77°F (25°C)											
	2 Hr Capacity		6 Hr Capacity		12 Hr Capacity		20 Hr Capacity		72 Hr Capacity		100 Hr Capacity	
	Ah	KWh	Ah	KWh	Ah	KWh	Ah	KWh	Ah	KWh	Ah	KWh
VRS12-100	69.6	0.862	83.7	0.997	93.5	1.117	100.0	1.200	103.5	1.240	104.0	1.250

SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Operating Temperature Range (with temperature compensation)	Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)
Optimal Operating Temperature Range	+74°F (23°C) to +80°F (27°C)
Recommended Maximum Charging Current Limit	20.0 amperes @ 100% DOD
Float Charging Voltage	13.62 to 13.8 VDC/unit Average at 77°F (25°C)
Equalization and Cycle Service Charging and Current Limits	14.4 to 14.8 VDC/unit Average at 77°F (25°C)
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results Maximum voltage allowed = 4% P-P Maximum current allowed = C/20 RMS (20 Amps)
Self Discharge	Up to 6 months at 77°F (25°C) and then a freshening charge is required. Batteries stored at temperatures at greater than +77°F (25°C) will require recharge sooner than batteries stored at temperatures less than 77°F (25°C). See C&D brochure 41-7272, Self Discharge and Inventory Control for details.
Temperature Correction Factor	+3 mv/F per cell when operating, below 77°F (25°C) -3 mv/F per cell when operating, above 77°F (25°C)
Terminal	Threaded copper alloy insert terminal to accept ¼-20 UNC bolt
Terminal Hardware Torque	110 in.-lbs (12.4 N-m)

BATTERY CHARACTERISTICS



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