



**DYNASTY®**

**HIGH  
RATE  
MAX**



**UPS 12-680MRF**

**Valve Regulated Lead Acid (VRLA) Battery Series  
Designed for UPS Standby Power Applications**

**FEATURES & BENEFITS**

**APPLICATIONS**

- Data Centers
- Network Operations Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks & Financial Markets
- Power Generation Plants
- Hospitals & Testing Laboratories
- Emergency 911 Response Centers

- Ten Year Design Life in Float Service
- UL-recognized component
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of over 99%
- Multicell design for ease of installation and maintenance
- Operates at a low internal pressure
- Thermally welded case-to-cover bond to ensure a leak-proof seal
- Flame-retardant polypropylene case and cover compliant with UL1778
- Shock absorbant thick wall construction
- Measured high vacuum acid fill reduces electrical variability between cells
- Oversized through the partition inter-cell welds for minimal power loss
- Advanced lead tin calcium alloy reduces grid corrosion and promotes long battery life
- Cold forged nonporous terminal bushings eliminate post leakage
- Flame arresting, low pressure safety release venting system for individual cells, recognized per UL924
- Not restricted for air transport - Complies with IATA/ICAO Special Provision A67
- Not restricted for surface transport - classified as non-hazardous material as related to DOT-CFR Title 49 Parts 171-189
- Not restricted for water transport - classified as non-hazardous material per Amendment 27
- 3 Year Full Warranty (refer to Dynasty warranty card, 41-9027)
- Cabinets and racks available. See brochure 12-1100

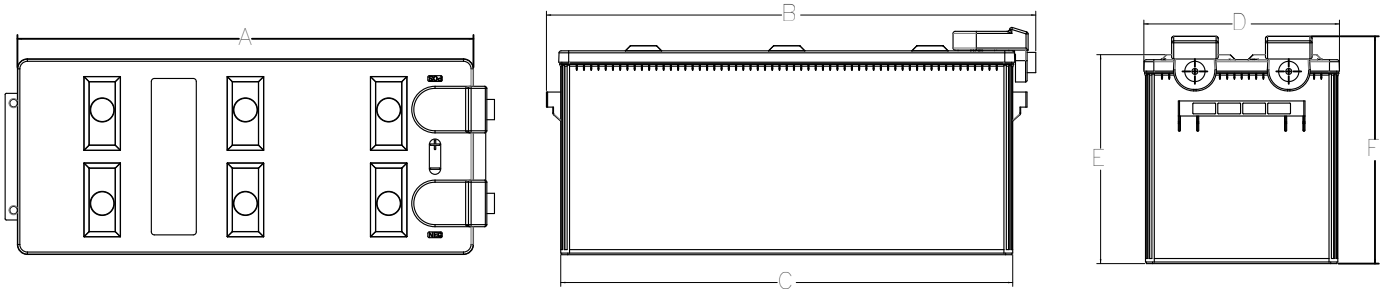
**SPECIFICATIONS**

Constant Power Discharge Ratings - Watts pe Cell @77°F (25°C)										
Model Number	Voltage Per Unit	20 Hour Rate @ 77°F (25°C) to 1.75	Operating Time (in minutes) to 1.67 volts per cell							
			5	10	15	20	30	40	50	60
UPS12-680MRF	12	196 Ah	1188	870	680	560	417	335	280	241

## SPECIFICATIONS

Model	Cells Per Unit	Battery Weight		Maximum Terminal Discharge Current (Amps)	Ohms Impedance 60 Hz ( $\Omega$ )
		lbs	kg		
UPS 12-680MRF	6	146	66	1200	0.00142

## DIMENSIONS



MODEL	A		B		C		D		E		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
UPS 12-680MRF	19.7	500	21.1	536	20.7	527	8.4	214	9.0	229	9.4	239

Operating Temperature Range with temperature compensation	Discharge -40°F (-40°C) to +140°F (+60°C) Charge -40°F (-40°C) to +122°F (+50°C)
Nominal Operation Temperature Range	+68°F (+20°C) to +77°F (+25°C)
Recommended Maximum Charging Current Limit	30 amperes
Recommended Float Voltage	2.26 to 2.30 volts cell
Maximum AC Ripple (Charger)	1.5% peak to peak of float
Self Discharge/Storage time from a fully charged condition	6 months at +77°F (+25°C). For each +15°F (+9°C) rise, reduce the storage time by half. See C&D brochure 41-7272, Self Discharge and Inventory Control for details.
Terminal Inserter	Threaded copper insert to accept 5/16" bolt
Terminal Hardware Torque	160 in-lbs (18 N-m)

## UPS 12-680MRF

Constant Power Discharge Ratings, Watts per cell @ + 77°F (+25°C) in minutes							
Final VPC	5 min	10 min	15 min	20 min	30 min	45 min	1 hr
1.60	1,260	892	688	564	419	306	242
1.67	1,188	870	680	560	417	305	241
1.70	1,148	853	671	554	414	303	241
1.75	1,073	812	648	538	407	299	240

Constant Current Discharge Ratings - Amperes												
Final VPC	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	12 hr	16 hr	20 hr	24 hr
1.75	125.9	72.1	51.6	40.5	33.3	28.3	22.0	18.1	15.4	12.0	9.8	8.3
1.80	122.6	70.2	50.0	39.2	32.5	27.8	21.7	17.8	15.2	11.7	9.5	8.0
1.85	113.9	66.9	47.9	37.7	31.3	26.9	21.0	17.4	14.8	11.5	9.4	7.9

Note: Specifications subject to change without notification. Above ratings do not include interunit connector voltage drops

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