



DYNASTY®

**HIGH
RATE
MAX**

UPS 12-745MRF



**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 with an Oxygen Limiting Index of greater than 28
- 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)

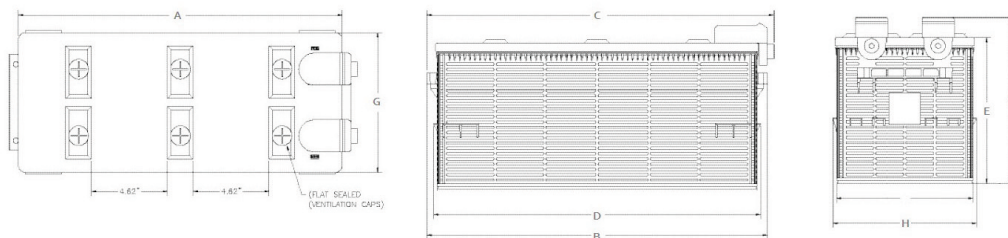
SPECIFICATIONS

Constant Power Discharge Ratings - Watts per Cell @ 77°F (25°C)									
Model Number	Voltage Per Unit	8 Hour Rate @ 77°F (25°C) to 1.75	Operating Time (in minutes) to 1.67 volts per cell						
			5	10	15	20	30	60	90
UPS12-745MRF	12	170 Ah	1307	944	742	600	446	260	194

SPECIFICATIONS

Model	Cells Per Unit	Battery Weight		Maximum Terminal Discharge Current (Amps)	Ohms Impedance 60 Hz (Ω)
		lbs	kg		
UPS12-745MRF	6	152	69	1086	0.00173

DIMENSIONS



Model	A		B		C		D		E		F		G		H	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
UPS12-745MRF	19.50	495.30	20.75	527.05	21.12	536.45	19.91	505.71	8.87	225.30	10.10	256.54	8.48	215.39	8.70	220.98

* All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

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 Operating Temperature Range	+68°F (20°C) to +77°F (25°C)
Recommended Maximum Charging Current Limit	C/4 amperes at 100% discharge
Float Current Voltage	2.27 to 2.30 volts per 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: Inserted - Inter-unit connector provided	Threaded copper insert to accept 5/16" bolt

UPS 12-745MRF

Constant Power Discharge Ratings, Watts per cell @ 77°F (25°C) in minutes							
Final VPC	5	10	15	20	30	60	90
1.60	1389	979	759	607	449	261	196
1.67	1307	944	742	600	446	260	194
1.70	1181	875	698	578	436	257	192
1.75	1067	811	657	556	427	254	189

Volts per Cell	Constant Current Discharge Ratings - Amperes									
	Operating Time to End Point Voltage (in hours)									
1	2	3	4	5	6	8	10	12	24	
1.75	131.6	68.1	48.8	38.4	31.8	27.2	21.3	17.4	14.8	7.6
1.80	128.5	67.0	47.9	37.3	30.8	26.3	20.5	16.7	14.2	7.5
1.85	109.6	64.0	45.7	35.8	29.6	25.4	19.7	16.1	13.7	7.3
1.90	98.2	58.3	41.7	32.8	27.2	23.2	18.1	14.9	12.6	6.8

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

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