

DYNASTY®

**TRUE
FRONT
ACCESS
HIGH RATE MAX**

UPS 12-355MRF



**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

- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with C&D Ohmic Ring®
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Thermally welded case-to-cover bond to ensure a leak-proof seal
- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of over 99%
- Optional True Front Access gas collection system
- Multicell design for ease of installation and maintenance
- UL-recognized component
- Compliant to major global specifications
 - UL1778, 924, 1989
 - BS 6290-4
 - IEC 896-2
 - UL94 V-0
- 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

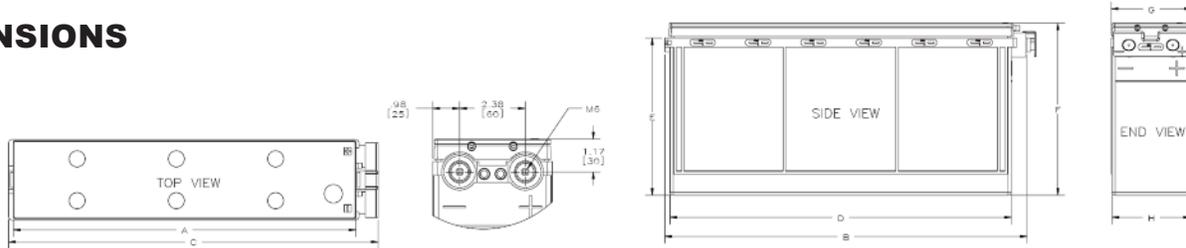
Constant Power Discharge Ratings - Watts per cell @ 77°F (25°C)											
Model Number	Voltage Per Unit	20 Hour Rate @ 77°F (25°C) to 1.75	Operating Time (in minutes) to 1.67 volts per cell								
			5	10	15	20	30	40	50	60	90
UPS12-355MRF	12 V	108 Ah	591.3	440.8	358.4	299.7	229.4	190.5	164.9	146.6	105.6

*Nominal 20 hr rate to 1.75 VPC in Ampere-Hours

SPECIFICATIONS

Model	Cells per Unit	Battery Weight		Maximum Terminal Discharge Current Rating (AMPS)	Ohms Impedance 60 Hz (Ω)
		lbs	kg		
UPS12-355MRF	6	80	36	800	0.0030

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
UPS12-355MRF	18.5	469	19.5	496	20.1	511	18.5	470	8.5	216	9.3	235	4.3	110	4.2	107

* 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 +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)
Nominal Operating Temperature Range	+68°F (20°C) to +80°F (27°C)
Recommended Maximum Charging Current Limit	C/5 amperes @ 20 Hr rate
Float Charging Voltage	13.5 to 13.8 VDC average per 12V unit
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Max voltage allowed = 1.4% RMS (4% P-P) Max current allowed = C/20
Self Discharge	Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D brochure 41-7272, Self-Discharge and Inventory Control for details.
Equalize charge and cycle service voltage	14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C)
Terminal: Inserted - Inter-unit connector provided	Threaded copper alloy insert terminal to accept M6 bolt
Terminal Hardware Initial Torque:	110 in.-lbs. (12.4 N-m)

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Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)										
End Point Volts/Cell	Operating Time to End Point Voltage (in minutes)									
	5	10	15	20	30	40	45	50	60	90
1.75	543.9	411.8	334.9	283.3	220.6	183.8	170.6	159.6	142.2	103.1
1.70	578.3	431.1	350.5	294.0	226.0	188.0	174.4	163.0	145.1	104.7
1.67	591.3	440.8	358.4	299.7	229.4	190.5	176.6	164.9	146.6	105.6
1.65	600.6	447.7	364.0	303.7	231.7	192.5	178.5	166.8	148.3	106.5

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

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