TECHNOLOGIES

Power Solutions

12-1040



UPS12-600MRX

Valve Regulated Lead Acid Battery

Designed for UPS Standby Power Applications.

APPLICATIONS

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

FEATURES & BENEFITS

- 10 year design life @ 25°C
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Patented Long Life Alloy having the lowest calcium levels in the industry minimizing grid growth, reducing gassing, and extending battery life.
- Patented UL Recognized Flamearresting vents in each cell for safety and long life.
- Designed with the same recombination, thermal runaway prevention, gassing and flame retardant characteristics of the Bellcore 4228 compliant Dynasty Telecom products.
- Flame retardant polypropylene case and cover compliant with UL94V-2

- 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.
- Thermally welded case-to-cover bond to eliminate leakage.
- Can be operated in any orientation. Upright, side, or end mounting recommended.
- Not restricted for air transport Complies with IATA/ICAO Special Provisions 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 IMDG Amendment 27.
- Eurobat Classification: Long life

TECHNICAL DATA

	Model		Constant Power Discharge Ratings - Watts per Cell @ 25°C (77°F) Operating Time (in minutes) to 1.67 Volts per Cell									20 hour rate to 1.75 VPC @	IEC Rating: 10 hour rate to 1.80 VPC			
			5	10	15	20	30	40	45	50	60		90	25°C	@ 20°C	
	UPS12-6	00MRX	969	745	601	486	361	299	268	251	217	7	153	147 AH	135 AH	
Cells F	Cells Per Unit		Nominal Voltage		ght (Kg)	1 Min Current to 1.75VPC (Amps)		IEC Short Circuit Current (Amps)		IEC Internal Resis (mOhms			Dynast Short Circuit (Amps) @	Current		
6		1	12 109 (49.4)		9.4)	828			3640			3.45		6448		

* Same method as High Rate Series & High Rate Max Series

Additional ratings and application information are available in the Battery Selection Program found at www.cdstandbypower.net

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UPS



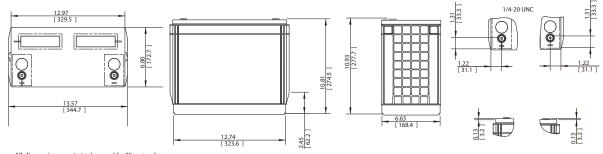
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SPECIFICATIONS

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	+74°F (23°C) to +80°F (27°C)
Recommended Maximum Charging Current Limit	C ₂₀ /5 amperes (29.4A)
Float Charging Voltage	13.65 ± 0.15 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	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt.
Terminal Hardware Initial Torque	110 inlbs. (12.4 N-m)

DIMENSIONS



All dimensions are in inches and [millimeters].

CONSTANT POWER DISCHARGE RATINGS

	Co				s - Watts Pe		0°C (68°F)			
		Op	perating Tir	ne To End	Voltage (in	minutes)				
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	816	641	518	427	326	274	247	233	204	145
1.70	872	681	548	447	336	280	252	237	206	
1.67	911	700	565	458	342	284	255			
1.65	939									
			<u> </u>							
	Co				s - Watts Pe		7°F (25°C)			
	Co				<mark>s - Watts Pe</mark> Voltage (in		7°F (25°C)			
End Point Volts/Cell	Co 5						7°F (25°C) 45	50	60	90
End Point Volts/Cell 1.75	-	Op	perating Tir	ne To End	Voltage (in	minutes)		50 244	60 212	90 151
	5	0p 10	perating Tir 15	ne To End	Voltage (in 30	minutes) 40	45			
1.75	5 868	Op 10 682	berating Tir 15 551	ne To End 20 453	Voltage (in 30 345	minutes) 40 288	45 259	244	212	151

Note: Batteries to be mounted with 0.5 in. (1.25cm) spacing minimum and free air ventilation. Specifications subject to change without notification. Above ratings do not include inter-unit connector voltage drops. Additional ratings and application information are available in the Battery Selection Program found at www.cdstandbypower.net

CONSTANT CURRENT DISCHARGE RATINGS

					Amperes (oltage (in h		- /		
End Point Volts/Cell	1	2	3	5	8	10	12	20	24
1.85	94.1	53.0	37.5	24.3	16.0	13.0	11.0	6.76	5.70
1.80	99.7	55.8	39.3	25.4	16.6	13.5	11.4	7.06	5.95
1.75	102	56.8	40.2	25.8	16.9	13.8	11.6	7.18	6.05
	Const				Amperes (oltage (in h		C)		
End Point Volts/Cell	1	2	3	5	8	10	12	20	24
1.85	98.0	55.1	38.8	25.1	16.5	13.3	11.2	6.94	5.84
1.00	10.1	58.0	40.7	26.3	17.1	13.9	11.7	7.24	6.11
1.80	104	30.0	40.7						

Note: Batteries to be mounted with 0.5 in. (1.25cm) spacing minimum and free air ventilation. Specifications subject to change without notification. Above ratings do not include inter-unit connector voltage drops. Additional ratings and application information are available in the Battery Selection Program found at www.cdstandbypower.net



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