12-1142







**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
- USA TAA eligible product

- 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 (12 year design life @ 20°C)

#### TECHNICAL DATA

		C	onstant Power Discharge Ratings - Watts per Cell @ 25°C (77°F)									IEC Rating:
Model	Operating Time (in minutes) to 1.67 Volts per Cell											10 hour rate to 1.80 VPC
Model	5	10	15	20	30	40	45	50	60	90	VPC @ 25°C	@ 20°C
UPS12-600MR	969	745	601	486	361	299	268	251	217	153	147 AH	135 AH

Cells Per Unit	Nominal Voltage	Weight Lbs. (Kg)	1 Min Current to 1.75VPC (Amps)	IEC Short Circuit Current (Amps)	IEC Internal Resistance (mOhms)	Dynasty* Short Circuit Current (Amps) @ .1 Sec
6	12	109 (49.4)	828	3640	3.45	6448

<sup>\*</sup> Same method as High Rate Series & High Rate Max Series

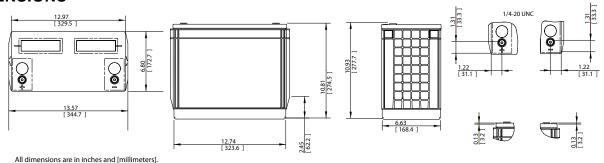
Additional ratings and application information are available in the Battery Selection Program found at www.cdstandbypower.net

12-1142/0816/CD www.cdtechno.com

### **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 <sub>20</sub> /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**



### CONSTANT POWER DISCHARGE RATINGS

	Constant Power Discharge Ratings - Watts Per Cell @ 20°C (68°F)												
Operating Time To End Voltage (in minutes)													
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90			
1.75	824	647	523	431	327	268	246	229	201	143			
1.70	881	688	554	451	337	274	252	233	204	145			
1.67	920	708	571	462	343	277	254	235	206	146			
1.65	948	718	578	467	346	280	256	237	207	146			

Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)											
Operating Time To End Voltage (in minutes)											
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90	
1.75	868	682	551	453	345	282	259	241	212	151	
1.70	928	725	583	475	355	288	265	245	215	152	
1.67	969	745	601	486	361	292	268	248	217	153	
1.65	999	756	608	492	365	294	270	250	218	154	

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**

	Constant Current Discharge Ratings - Amperes @ 20°C (68°F)											
Operating Time To End Point Voltage (in hours)												
End Point Volts/Cell	1	2	3	5	8	10	12	20	24			
1.85	93.1	52.3	36.8	23.8	15.7	12.6	10.6	6.6	5.5			
1.80	98.6	55.1	38.7	25.0	16.2	13.2	11.1	6.8	5.8			
1.75	101	56.0	39.6	25.4	16.5	13.4	11.3	7.0	5.9			

	Constant Current Discharge Ratings - Amperes @ 77°F (25°C)											
Operating Time To End Point Voltage (in hours)												
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			
1.80	104	58.0	40.7	26.3	17.1	13.9	11.7	7.24	6.11			
1.75	106	59.0	41.7	26.7	17.4	14.1	11.9	7.36	6.20			

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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