



**MULTI
PURPOSE
SERIES**

MPS12-88

**VALVE REGULATED LEAD ACID BATTERY
FOR STANDBY POWER APPLICATIONS**

**12V 88 AH @ 20 HR Rate,
12V 275 Watts/Cell @ 15 Min Rate**



FEATURES

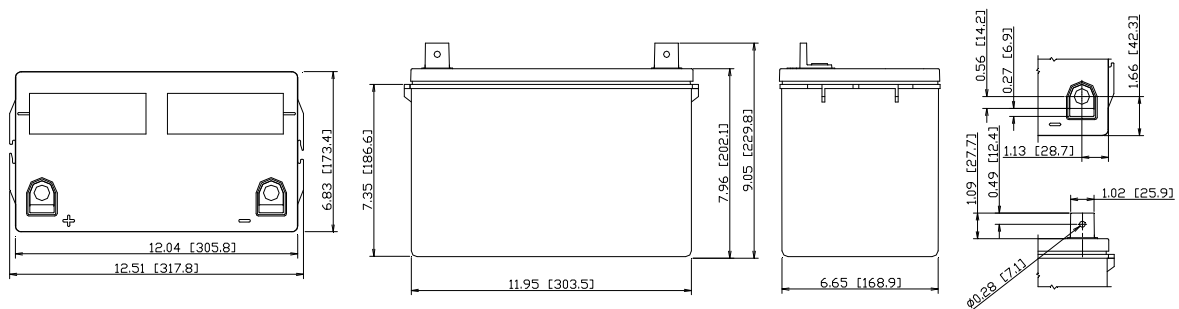
APPLICATIONS

- Telecommunications
- General Purpose Applications
- Uninterrupted Power Supply (UPS)
- Other Float Applications

- Design life: 10 year
- Robust plate for extended life.
- Flame-arresting one-way pressure-relief vent for safety and long life.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Multicell design for economy of installation and maintenance.
- Computer designed lead, low Calcium alloy grid for minimal gassing and ease of recycling.
- UL-recognized component.
- Can be used in upright, side, or end mounting orientation.
- 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 IMDG Amendment 27

SPECIFICATIONS

Cells Per Unit	Voltage Per Unit	Weight	IEC Rating (C10, 1.80V @ 20°C)	Capacity (C20, 1.75V @ 25°C)	Watts/Cell @ 15min	Resistance
6	12.98V	26 Kg	76 Ah	88 Ah	275	6 (mΩ)



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

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)
Recommended Operating Temperature Range	+74°F (23°C) to +80°F (27°C).
Floating Charging Voltage	13.65 ± 0.15 VDC/unit Average at 77°F (25°C).
Recommended Maximum Charging Current Limit	C/5 amperes @ 20 hr. rate.
Equalization and Cycle Service Charging Voltage	14.4 to 14.8 VDC/unit Average at 77°F (25°C).
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P). Maximum current allowed = 5.10 amperes RMS (C/20).
Self Discharge	MPS batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Accessories	Inter unit connectors, racks and cabinet systems are available.
Terminal	L-type terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.
Container and Cover Materials	PP (UL94 HB)

Constant Power Discharge Ratings Watts Per Cell @ 77°F (25°C)

Operating Time to End Point Voltage

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	336.2	260.8	225.3	190.3	167.0	146.1	112.6	90.1	65.4	52.9	39.1	30.9	25.9	17.6	14.5	12.3	7.9
1.80	400.7	294.2	245.8	210.9	185.6	160.2	121.6	102.1	70.8	57.0	41.4	32.5	26.9	18.4	15.2	12.9	8.2
1.75	448.7	328.2	262.8	219.3	193.1	167.0	126.5	101.9	74.9	60.1	43.2	33.5	27.8	18.9	15.6	13.3	8.5
1.70	492.3	341.9	269.6	223.6	196.3	169.1	128.3	103.3	76.3								
1.67	506.8	352.3	275.3	227.2	199.5	171.8	129.7	104.2	76.7								
1.65	511.6	357.1	279.9	229.3	201.9	174.5	131.2	105.2	77.2								

Constant Current Discharge Ratings - Amperes @ 77°F (25°C)

Operating Time to End Point Voltage

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	145.0	120.0	104.0	70.4	43.0	31.7	25.4	18.5	15.0	12.5	10.8	9.5	8.5	7.0	5.9	3.9	3.3
1.85	184.0	140.0	120.0	77.0	47.0	34.3	27.5	20.3	16.1	13.4	11.6	10.3	9.1	7.5	6.4	4.1	3.5
1.80	222.0	160.0	132.0	85.0	51.1	37.0	29.8	21.6	17.0	14.0	12.2	10.7	9.6	7.9	6.7	4.3	3.6
1.75	252.0	180.4	142.0	89.0	53.8	39.3	31.5	22.6	17.5	14.5	12.5	11.0	9.9	8.1	6.9	4.4	3.7

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.