



**MULTI
PURPOSE
SERIES**

MPS 12-7A

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

**12V 7 AH @ 20 HR Rate,
12V 25 Watts/Cell @ 15 Min Rate**



FEATURES

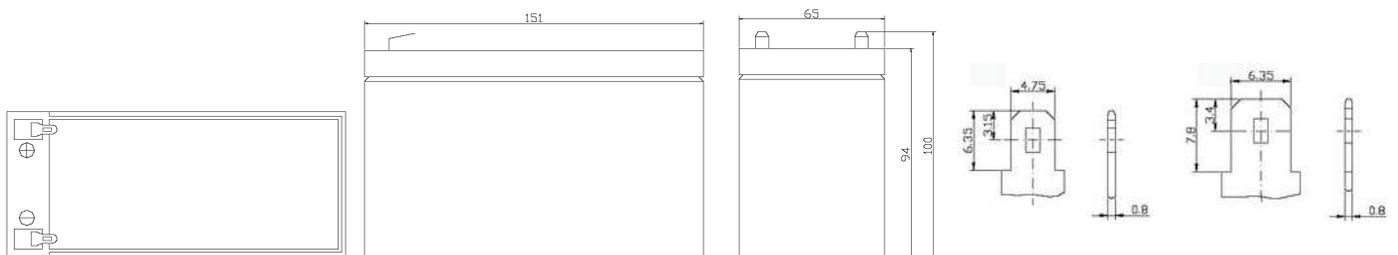
APPLICATIONS

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

- Design life: 5 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	Short Circuit Current	Resistance
6	12 V	2.15 Kg	6.5 Ah	7 Ah	25	180 Amps	25 (mΩ)



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

SPECIFICATIONS

Operating Temperature Range with temperature compensation	Discharge: -20°C to 60°C Charge: 0°C to 50°C
Recommended Operating Temperature Range	23°C to 27°C
Floating Charging Voltage	13.7 to 13.9 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:	Faston Tab 187/Faston tab 250
Container and Cover Materials	ABS (UL-94 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	32.8	25.4	20.9	19.9	16.0	14.0	10.6	9.0	6.9	5.3	3.7	3.0	2.5	1.6	1.4	1.2	0.7
1.80	37.2	27.3	22.2	20.5	16.5	14.4	10.8	9.2	7.0	5.4	3.7	3.0	2.5	1.6	1.4	1.2	0.7
1.75	41.2	29.1	23.5	21.0	16.9	14.7	11.1	9.4	7.0	5.5	3.8	3.0	2.5	1.6	1.4	1.2	0.7
1.70	45.2	30.4	24.8	21.2	17.2	15.0	11.3	9.5	7.0	5.5	3.8	3.1	2.5	1.6	1.4	1.2	0.8
1.67	47.5	31.7	25.1	21.6	17.4	15.1	11.4	9.6	7.0	5.6	3.8	3.1	2.6	1.7	1.4	1.2	0.8
1.65	48.1	32.0	25.4	21.8	17.6	15.3	11.6	9.7	7.1	5.6	3.8	3.1	2.6	1.7	1.4	1.2	0.8

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	23.9	13.5	12.3	6.4	4.2	3.1	2.4	1.7	1.4	1.1	1.0	0.8	0.7	0.6	0.5	0.3	0.3
1.85	17.8	13.5	11.0	7.1	4.5	3.4	2.6	1.8	1.5	1.2	1.0	0.9	0.8	0.7	0.6	0.3	0.3
1.80	20.3	14.7	12.0	7.3	4.7	3.5	2.7	1.9	1.5	1.2	1.1	0.9	0.8	0.7	0.6	0.3	0.3
1.75	22.7	15.8	12.7	7.6	4.7	3.5	2.8	1.9	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.4	0.3

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