



**MULTI
PURPOSE
SERIES**

MPS 12-18A

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

**12V 18 AH @ 20 HR Rate,
12V 65 Watts/Cell @ 15 Min Rate**



FEATURES

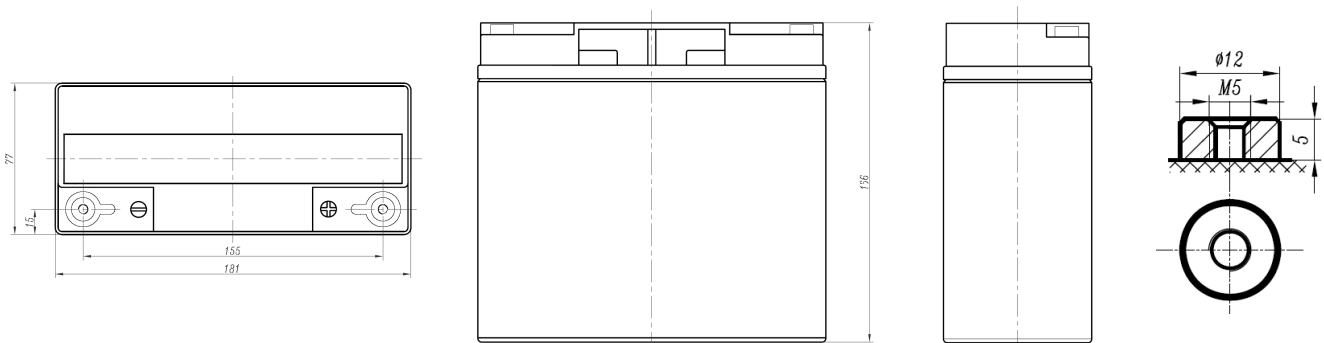
APPLICATIONS

- 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	5 Kg	16.5 Ah	18 Ah	65	450 Amps	14 (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:	Insert terminal to accept M5 bolt (L-type terminal optional)
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	85.4	66.1	54.5	51.8	41.8	36.4	26.5	22.6	17.3	13.1	9.2	7.5	6.1	4.0	3.4	2.9	1.7
1.80	96.9	71.0	57.9	53.4	43.0	37.4	27.1	23.0	17.4	13.6	9.4	7.6	6.2	4.0	3.4	2.9	1.7
1.75	107.4	75.9	61.2	54.7	44.1	38.3	27.7	23.4	17.5	13.7	9.5	7.6	6.3	4.1	3.5	2.9	1.9
1.70	117.6	79.2	64.6	55.3	44.8	39.1	28.1	23.7	17.5	13.8	9.5	7.7	6.3	4.1	3.5	3.0	1.9
1.67	123.7	82.4	65.5	56.1	45.3	39.4	28.6	23.9	17.6	13.9	9.5	7.7	6.4	4.1	3.6	3.0	1.9
1.65	125.2	83.4	66.2	56.8	45.8	39.9	29.0	24.2	17.8	13.9	9.6	7.7	6.4	4.1	3.6	3.0	1.9

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	61.6	34.8	31.6	16.4	10.4	7.7	6.0	4.2	3.4	2.8	2.4	2.1	1.9	1.6	1.4	0.8	0.7
1.85	45.8	34.8	28.5	18.2	11.3	8.4	6.6	4.6	3.7	3.1	2.5	2.2	2.0	1.7	1.4	0.8	0.7
1.80	52.4	38.0	30.9	18.9	11.6	8.7	6.9	4.7	3.8	3.1	2.6	2.3	2.0	1.7	1.5	0.9	0.7
1.75	58.5	40.7	32.7	19.5	11.9	8.8	6.9	4.7	3.8	3.1	2.7	2.3	2.0	1.7	1.5	0.9	0.8

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