



**MULTI  
PURPOSE  
SERIES**

**MPS 12-40A**

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

**12V 42 AH @ 20 HR Rate,  
12V 130 Watts/Cell @ 15 Min Rate**



**FEATURES**

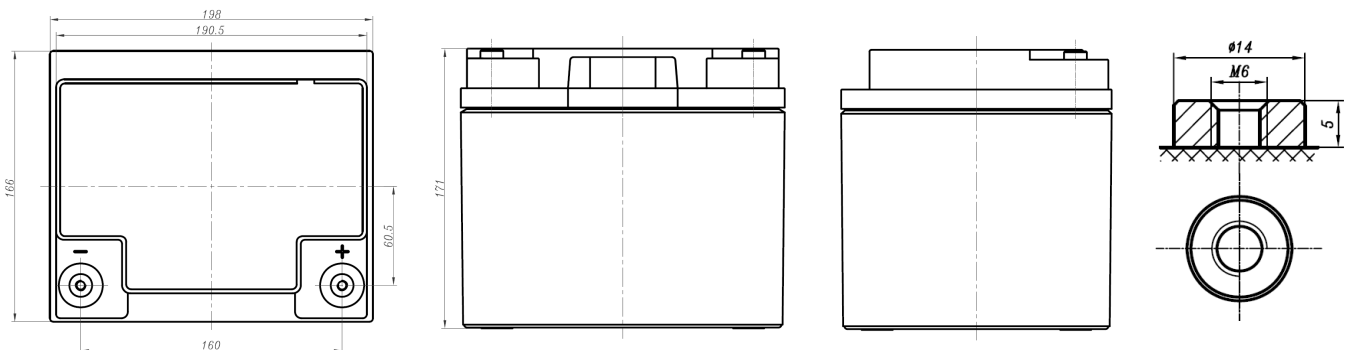
**APPLICATIONS**

- 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	Short Circuit Current	Resistance
6	12 V	13.2 Kg	39 Ah	42 Ah	130	800 Amps	8 (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	13.6 to 13.8 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	14.6 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 M6 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	158.0	121.9	102.5	89.0	82.8	75.2	55.8	46.2	36.3	28.5	19.7	16.2	13.7	9.4	7.9	6.6	4.1
1.80	179.9	134.8	113.9	96.2	86.5	79.8	58.3	48.2	37.4	29.6	20.6	17.0	14.4	9.8	8.2	6.8	4.2
1.75	197.5	146.2	123.2	101.6	88.5	81.1	59.4	49.1	37.7	30.0	21.1	17.4	14.6	10.0	8.2	6.9	4.2
1.70	217.0	157.0	129.2	105.4	90.3	81.7	59.9	49.6	37.9	30.2	21.2	17.6	14.8	10.1	8.3	7.0	4.3
1.67	219.5	161.3	130.6	106.6	91.5	82.3	60.3	50.0	38.3	30.4	21.3	17.6	14.9	10.1	8.4	7.0	4.3
1.65	221.2	162.6	131.7	107.4	92.1	82.7	60.8	50.0	38.3	30.4	21.3	17.7	14.9	10.1	8.4	7.0	4.3

### 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	70.2	54.5	47.9	34.4	22.7	17.8	13.6	9.5	7.8	6.4	5.4	4.8	4.4	3.8	3.1	1.9	1.6
1.85	83.0	64.7	55.5	39.2	23.6	18.5	14.3	9.8	8.1	6.9	5.9	5.1	4.7	4.0	3.3	2.0	1.7
1.80	97.2	72.4	61.8	41.9	24.8	18.9	14.9	10.3	8.5	7.2	6.1	5.4	4.9	4.1	3.4	2.1	1.8
1.75	107.7	79.4	67.1	42.6	25.4	19.3	15.2	10.6	8.7	7.3	6.2	5.5	5.0	4.1	3.5	2.1	1.8

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