



**MULTI  
PURPOSE  
SERIES**

**MPS12-100R**

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

**12V 100 AH @ 20 HR Rate,  
12V 315 Watts/Cell @ 15 Min Rate**



**FEATURES**

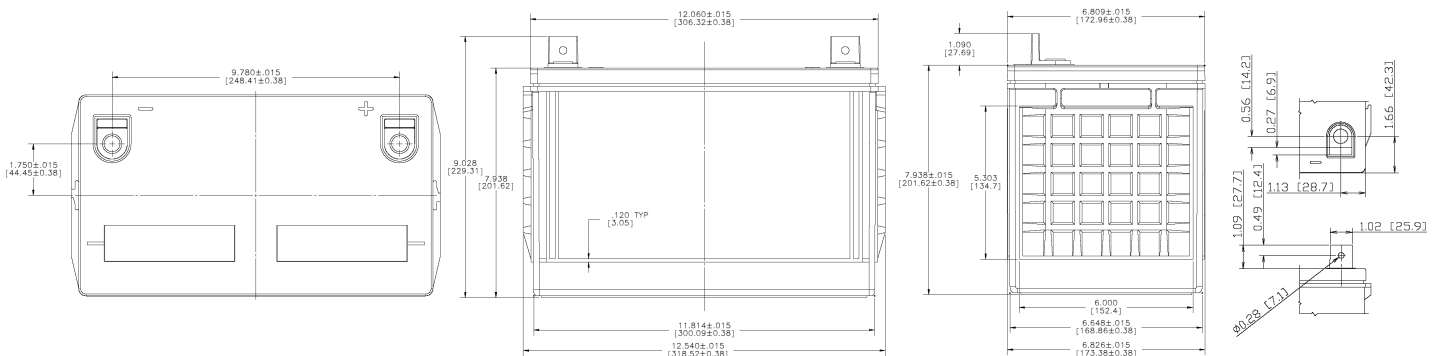
**APPLICATIONS**

- 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	12.98V	29 Kg	86 Ah	100 Ah	347	2405 Amps	5.2 (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	366.5	307.9	258.0	218.7	192.4	173.3	134.8	112.8	80.9	63.9	45.8	36.2	30.1	20.5	17.0	14.4	9.0
1.80	456.7	339.7	287.0	238.5	206.6	183.8	141.8	118.0	84.4	66.5	47.6	37.5	31.2	21.3	17.4	14.8	9.4
1.75	489.2	360.3	297.0	246.8	213.7	190.0	145.8	120.8	86.2	67.8	48.4	38.1	31.6	21.4	17.5	14.9	9.5
1.70	505.9	373.1	309.0	255.6	220.5	195.5	148.2	121.8	86.8	68.3	48.7	38.3	31.8	21.5	17.7	15.1	9.6
1.67	516.3	384.5	315.0	259.7	223.6	197.9	149.4	122.4	87.2	68.6	48.9	38.4	31.9	21.5	17.7	15.2	9.6
1.65	523.4	392.9	320.0	263.0	225.9	199.5	150.3	122.9	87.5	68.8	49.0	38.5	32.0	21.5	17.8	15.2	9.6

### 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	127.1	125.5	115.5	83.0	52.9	38.9	31.3	22.3	17.5	14.5	12.4	10.9	9.7	8.0	6.8	4.4	3.7
1.85	170.0	159.3	136.3	93.6	58.1	42.8	34.5	24.3	18.9	15.6	13.3	11.7	10.4	8.6	7.3	4.7	4.0
1.80	204.4	177.1	153.3	101.6	60.7	44.6	35.8	25.3	19.7	16.3	13.9	12.1	10.8	8.9	7.6	4.9	4.2
1.75	249.4	194.0	162.0	105.0	62.1	45.2	36.0	25.5	19.9	16.4	14.0	12.3	11.0	9.1	7.7	5.0	4.3

\* MPS12-100R is the same product as MPS12-100, but changes the side structure design of container with adding strengthen rib to improve appearance and strength.

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