Power Solutions

MPS





# MPS12-100R

# **VALVE REGULATED LEAD ACID BATTERY**

## **FOR STANDBY POWER APPLICATIONS**

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



#### **APPLICATIONS**

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

## **FEATURES**

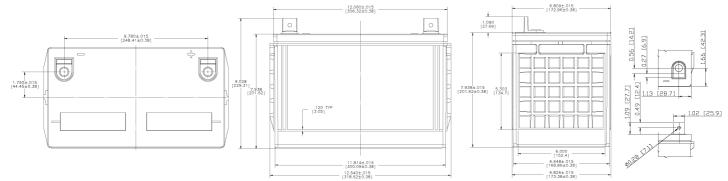
- Design life: 10 year
- Robust plate for extended life.
- Flame-arresting one-way pressurerelief vent for safety and long life.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Multicell design for economy of installation 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℃)	Capacity (C20, 1.75V @ 25℃)	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 $\pm$ 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

<sup>\*</sup> 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.



1400 Union Meeting Road P.O.Box 3053 • Blue Bell, PA 19422-0858 (215) 619-2700 • Fax (215) 619-7898 • (800) 543-8630 www.cdtechno.com Any data, descriptions or specifications presented herein are subject to revision by C&D Technologies, Inc. without notice. While such information is believed to be accurate as indicated herein, C&D Technologies, Inc. makes no warranty and hereby disclaims all warranties, express or implied, with regard to the accuracy or completeness of such information. Further, because the product(s) featured herein may be used under conditions beyond its control, C&D Technologies, Inc. hereby disclaims all warranties, either express or implied, concerning the fitness or suitability of such product(s) for any particular use or in any specific application or arising from any course of dealing or usage of trade. The user is solely responsible for determining the suitability of the product(s) featured herein for user's intended purpose and in user's specific application.