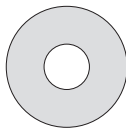
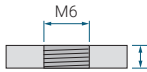


PHR-12380-E 12V 100.00 AH @ 10-hr. 383 W/Cell @ 15-min.

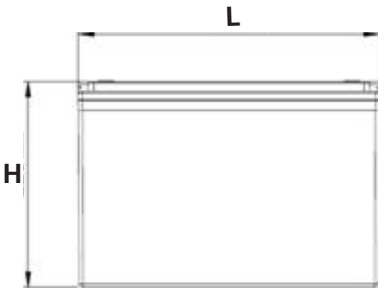
Rechargeable Sealed Lead Acid Battery
PHR-E – High-Rate Series

TERMINALS: (mm)



Torque: 6 Nm

DIMENSIONS: inch (mm)



L: 12.00 (305)
W: 6.08 (173)
H: 8.07 (220)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.



FEATURES

- Superb high-rate discharge characteristics that ensure reliable performance in UPS applications
- Specifically designed for UPS and critical power backup applications
- Valve regulated, maintenance free spill proof construction
- Extremely long float life performance
- Compact design with high energy density
- 10 - 12 year design life
- Rugged vibration and impact resistant ABS case and cover flame retardant to UL94-V0

APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- ISO9001:2015 – Quality management systems

PERFORMANCE SPECIFICATIONS

Nominal Voltage	12 volts (6 cells)
Nominal Power (15 min.)	383 W/Cell
Rated Capacity	
10-hr. (10.00A to 10.80 volts)	100.00 AH
8-hr. (11.84A to 10.50 volts)	94.97 AH
5-hr. (18.00A to 10.50 volts)	90.00 AH
Approximate Weight	78.0lbs. (35.5 kg)
Internal Resistance (approx.)	5.0 milliohms
Short Circuit Current	2550 A
Shelf Life (% of nominal capacity at 68°F (20°C))	
1 Month	98%
3 Month	94%
6 Month	88%
Operating Temperature Range	14°F (-10°C) to 122°F (50°C)
Recommended	59°F (15°C) to 77°F (25°C)
Case and Cover	Flame Retardant ABS Plastic UL94:V-0
Power Sonic Chargers	Contact for more information

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383 W/Cell @ 15-min.
Rechargeable Sealed Lead Acid Battery
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CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	381	278	208	127	83	71.2	39.1	28.2	22.1	18.4	15.8	12	10.3
1.65V/cell	351	267	206	125	82	69.7	38.7	27.9	21.9	18.2	15.6	11.98	10.25
1.70V/cell	326	251	202	119	80	69.1	38.4	27.7	21.8	18.1	15.5	11.97	10.2
1.75V/cell	307	237	191	118	80	68.9	37.9	27.4	21.5	18	15.4	11.84	10.1
1.80V/cell	284	220	175	114	78	65.6	37.3	27.3	21.3	17.8	15.3	11.83	10
1.85V/cell	251	201	157	108	73	62.9	35.5	24.7	20.2	17.1	14.9	11.52	9.75

CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	672	502	386	239	160	138.2	76.1	55.1	43.4	36.2	31.1	23.75	19.86
1.65V/cell	626	489	383	236	158	135.3	75.5	54.7	43.2	36	31	23.75	19.86
1.70V/cell	588	464	376	226	155	134.3	75.1	54.5	43	35.8	30.8	23.75	19.86
1.75V/cell	561	441	359	224	154	134.1	74.4	54.1	42.6	35.6	30.6	23.56	19.66
1.80V/cell	525	410	331	219	152	128.1	73.4	53.9	42.2	35.4	30.4	23.56	19.47
1.85V/cell	468	377	300	208	142	123	69.9	48.9	40.1	34.1	29.6	22.97	18.88

CONSTANT POWER DISCHARGE (WATTS/BLOCK) AT 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	4037	3017	2320	1439	959	830.7	457.5	331.1	260.9	217.6	187.2	142.74	119.34
1.65V/cell	3763	2937	2301	1420	951	813.2	454	328.8	259.7	216.5	186	142.74	119.34
1.70V/cell	3532	2789	2257	1360	930	807.3	451.6	327.6	258.6	215.3	184.9	142.74	119.34
1.75V/cell	3371	2648	2158	1347	925	806.1	446.9	325.3	256.2	214.1	183.7	141.57	118.17
1.80V/cell	3153	2463	1990	1317	915	769.9	441.1	324.1	253.9	212.9	182.5	141.57	117
1.85V/cell	2811	2266	1803	1250	855	739.4	420	293.7	241	204.8	177.8	138.06	113.49

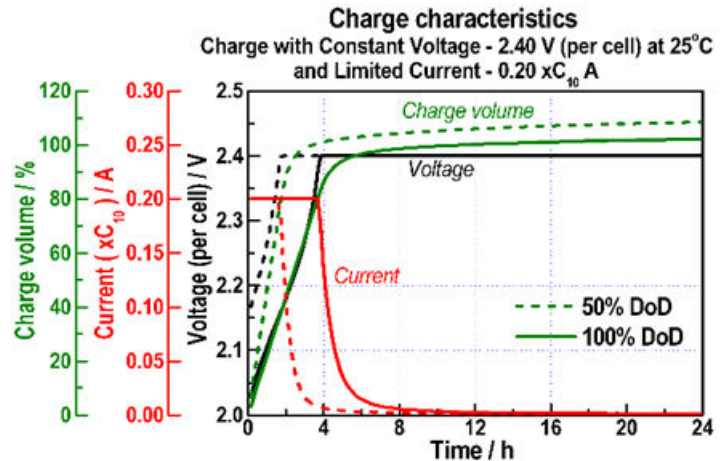
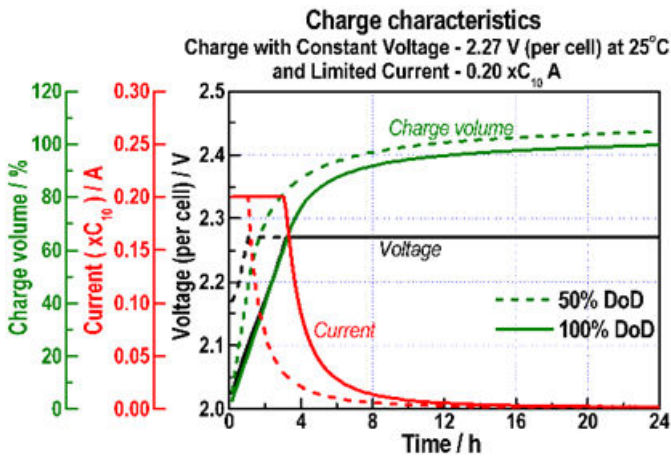
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PHR-12380-E 12V100.00AH @10-hr.
383 W/Cell @ 15-min.
Rechargeable Sealed Lead Acid Battery
PHR-E – High-Rate Series



CHARGING

Cycle Applications: Apply constant voltage charge at 2.35v/c - 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

“Float” or “Stand-By” Service: Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc at 20°C). When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/ Power Sonic Charger specifications.

APPLICATIONS

- High Rate UPS
- Data Centers

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CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

FURTHER INFORMATION

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.