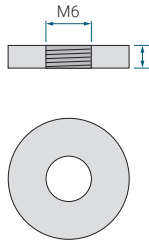




PHR-12230-E 12V 55.00 AH @ 10-hr. 231 W/Cell @ 15-min.

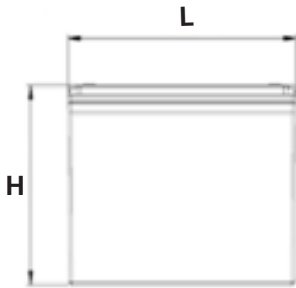
Rechargeable Sealed Lead Acid Battery
PHR-E – High-Rate Series

TERMINALS: (mm)



Torque: 7 Nm

DIMENSIONS: inch (mm)



L: 8.05 (215)
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.



GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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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.)	231 W/Cell
Rated Capacity	
10-hr. (5.5A to 10.80 volts)	55.00 AH
8-hr. (6.51A to 10.50 volts)	52.00 AH
5-hr. (9.9A to 10.50 volts)	49.5 AH
Approximate Weight	48.5lbs. (22.0 kg)
Internal Resistance (approx.)	8.1 milliohms
Short Circuit Current	1572 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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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	209	153	114	70	46	39.2	21.5	15.5	12.1	10.1	8.7	6.6	5.67
1.65V/cell	193	147	113	69	45	38.3	21.3	15.3	12.1	10	8.6	6.59	5.64
1.70V/cell	179	138	111	66	44	38	21.1	15.2	12	10	8.5	6.58	5.61
1.75V/cell	169	130	105	65	44	37.9	20.8	15.1	11.8	9.9	8.5	6.51	5.56
1.80V/cell	156	121	96	63	43	36.1	20.5	15	11.7	9.8	8.4	6.5	5.5
1.85V/cell	138	111	86	59	40	34.6	19.5	13.6	11.1	9.4	8.2	6.33	5.36

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	406	306	233	147	97	84.3	46.4	33.6	26.5	22.1	19	14.49	12.11
1.65V/cell	378	298	231	146	97	82.5	46.1	33.4	26.4	22	18.9	14.49	12.11
1.70V/cell	355	283	227	139	94	81.9	45.8	33.3	26.2	21.9	18.8	14.49	12.11
1.75V/cell	339	269	217	138	94	81.8	45.4	33	26	21.7	18.6	14.37	11.99
1.80V/cell	317	250	200	135	93	78.1	44.8	32.9	25.8	21.6	18.5	14.37	11.88
1.85V/cell	283	230	181	128	87	75.1	42.6	29.8	24.5	20.8	18.1	14.01	11.52

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	2438	1841	1401	886	585	506.7	279.1	202	159.2	132.7	114.2	87.07	72.8
1.65V/cell	2272	1791	1390	875	580	496	276.9	200.5	158.4	132	113.5	87.07	72.8
1.70V/cell	2133	1701	1363	838	567	492.5	275.5	199.8	157.7	131.3	112.8	87.07	72.8
1.75V/cell	2036	1615	1303	830	565	491.7	272.6	198.4	156.3	130.6	112.1	86.36	72.08
1.80V/cell	1904	1502	1202	811	558	469.6	269.1	197.7	154.9	129.9	111.3	86.36	71.37
1.85V/cell	1698	1382	1089	770	522	451.1	256.2	179.1	147	124.9	108.5	84.22	69.23

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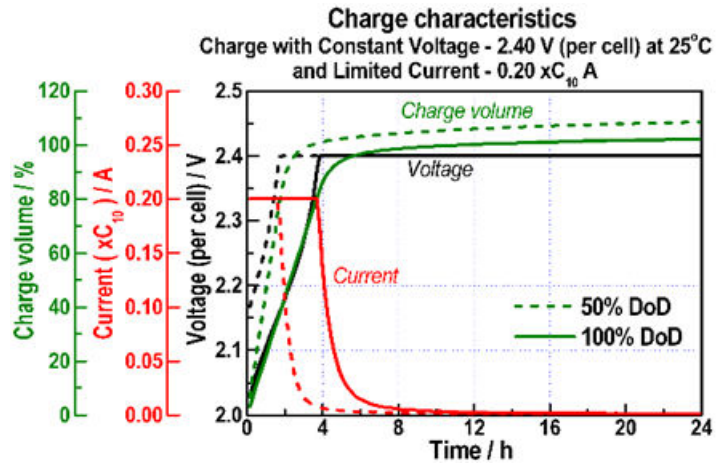
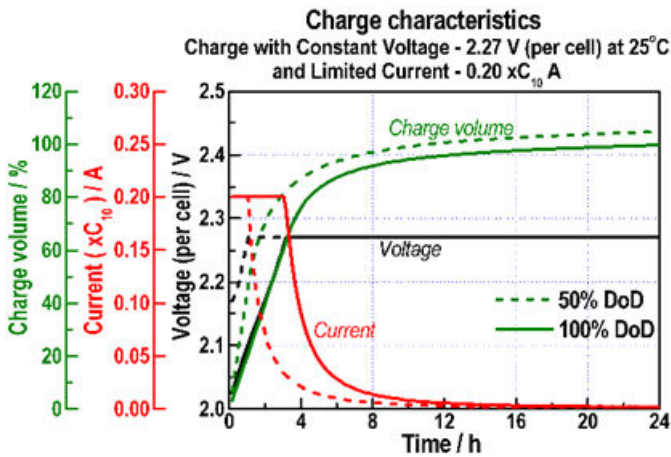
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231 W/Cell @ 15-min.

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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.