



OBS12240HR (12V 240W)

HighRate VRLA Battery

OSONIX High Rate VRLA has High-Density AGM technology, Manufactured from high purity lead (99.99%), its advanced lead tin calcium alloy reduces grid corrosion and promotes long battery life for up to 12 years



► Features

- Absorbed Glass Mat technology (AGM) for greater than 99.99% recombination efficiency
- Special designed thin grids for optimized high power density
- Oversized partition intercells welds, providing low resistance connections & minimal power loss
- Compliance with IATA/ICAO Special Provisions Compliance A67 (No restrictions for rail, road, sea & air transport)
- Superior performance at high rates of discharge & recharge

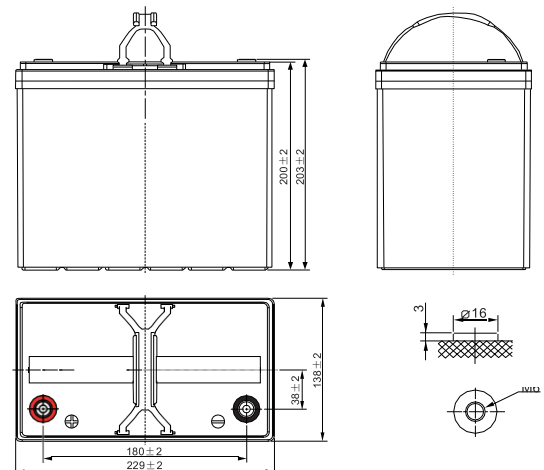
► Applications

- Uninterruptible power supply (UPS)
- Hospitals & Testing Laboratories
- Telecommunications
- Data Centers
- Banks & Financial Centers
- Power Generation Plants
- High Power Backup Supply



SPECIFICATIONS Standard @ 25°C (77°F)		
Nominal Voltage		12 V
Nominal Rate (15 min to 1.67 V/cell)		240.8 W/cell
Nominal Capacity (20 hrs to 1.80 V/cell)		55 Ah
Rated capacity	56.2 Ah	(20hr, 2.81A, 1.75V/cell)
	51.6 Ah	(8hr, 6.45 A, 1.75V/cell)
	43.8 Ah	(3hr, 14.6A, 1.75V/cell)
	39.5 Ah	(1hr, 39.5A, 1.67V/cell)
Max. Discharge Current		440 A
Internal Resistance		5 mΩ
Operating Temp.Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	-20 ~ 40°C (-4 ~ 104°F)
	Storage	-15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range		25 ±3 °C (77 ±5°F)
Short Circuit Current		1262 A
Charge voltage	Float.	13.5 ~ 13.8 V
	Temp. Coefficient.	-3 mV / cell / °C
Equalization.		13.8 ~ 14.4 V
Self Discharge		≤3% /month
Max. Charging Current (25°C)		13.75A

PHYSICAL SPECIFICATION		
Dimension	Length	229 ±1 mm (9.02 in)
	Width	138 ±1 mm (5.43 in)
	Height	200 ±1 mm (7.87 in)
	Total Height	203 ±1 mm (7.99 in)
Weight		17.7 Kg (39.0 lbs)
Terminal		M6
Container Mat. (Flame retardant)		ABS UL94 HB
Recommended Torque		4 N m (35.40 in-lbs)
Maximum allowable torque		5.4 N m (47.79 in-lbs)



Compliance with:
IEC 60896 Standard
CE, UL 1989, UL94 HB

IATF16949, OHSAS 18001, ISO 9001, ISO 14001 Certified production



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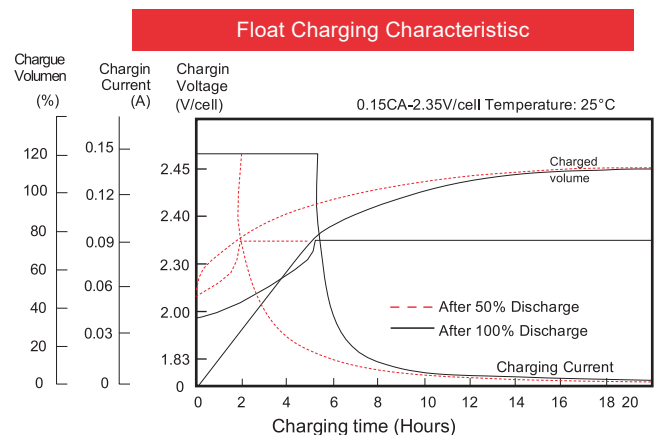
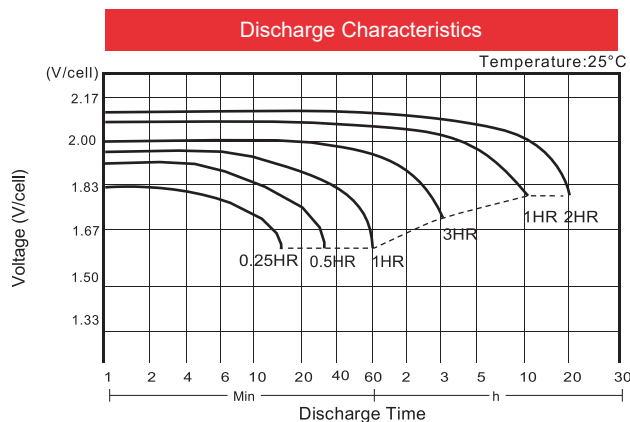
HighRate VRLA Battery

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C (77°F)

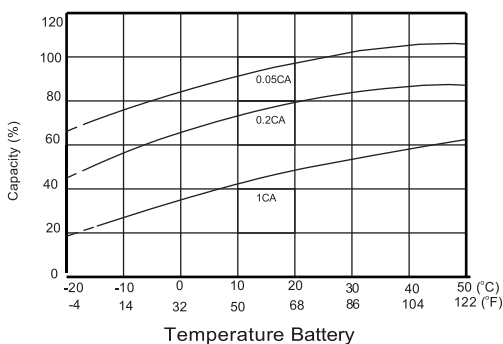
Final V. / Time	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.85V/cell	147.1	107.6	90.4	74.4	59.7	42.6	34.1	19.2	13.7	10.8	8.99	7.75	6.16	5.13	2.64
1.80V/cell	175.1	122.4	102.4	81.9	64.2	45.2	35.9	20.0	14.2	11.2	9.28	7.97	6.33	5.26	2.75
1.75V/cell	202.2	135.5	110.6	87.7	67.2	47.3	37.1	20.6	14.6	11.4	9.47	8.13	6.45	5.36	2.81
1.70V/cell	219.3	147.6	118.6	93.2	70.6	48.9	38.4	21.0	15.0	11.7	9.69	8.32	6.59	5.45	2.86
1.67V/cell	237.5	156.0	127.0	98.1	73.1	50.6	39.5	21.6	15.2	11.9	9.88	8.49	6.71	5.56	2.91
1.60V/cell	255.6	166.8	132.4	102.2	75.7	52.4	40.8	22.0	15.5	12.2	10.10	8.73	6.88	5.68	2.99

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

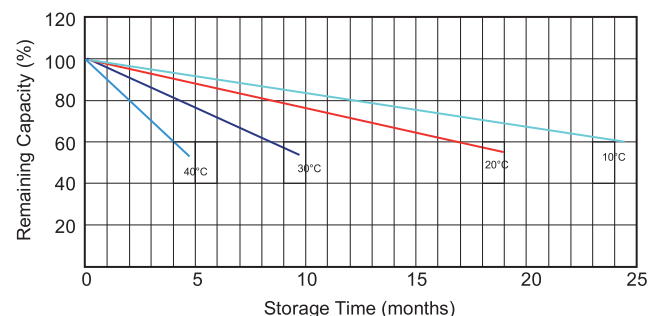
Final V. / Time	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.85V/cell	286.3	210.7	177.9	147.0	118.6	85.2	68.2	38.5	27.7	21.9	18.3	15.8	12.6	10.5	5.46
1.80V/cell	336.9	237.0	199.4	160.4	126.3	89.6	71.3	39.9	28.6	22.5	18.8	16.2	12.9	10.8	5.65
1.75V/cell	385.5	259.9	213.5	170.1	131.3	92.7	73.4	41.0	29.2	22.9	19.0	16.4	13.1	10.9	5.75
1.70V/cell	413.0	280.0	226.2	179.0	136.5	95.1	75.3	41.4	29.7	23.3	19.3	16.7	13.3	11.0	5.81
1.67V/cell	443.8	293.8	240.8	187.2	140.6	98.0	77.1	42.3	30.0	23.6	19.6	16.9	13.4	11.2	5.89
1.60V/cell	472.3	310.7	248.5	193.1	144.2	100.4	78.9	42.7	30.4	24.0	20.0	17.2	13.6	11.3	5.98



Temperature Effects in Relation to Battery Capacity



Self-Discharge Features



Compliance with:
IEC 60896 Standard
CE, UL 1989, UL94 HB
IATF16949, OHSAS 18001, ISO 9001, ISO 14001 Certified production



* Product specifications are subject to change without notice.
* US-V2509-REV1.02
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