



OBS1285HR (12V 85W)

High Rate 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

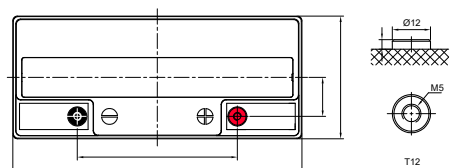
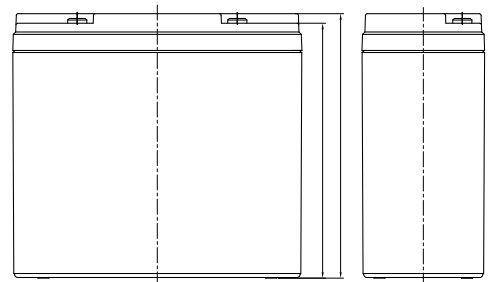


SPECIFICATIONS Standard @ 25°C (77°F)

Nominal Voltage		12 V
Nominal Rate (15 min to 1.67 V/cell)		90 W/cell
Nominal Capacity (10 hrs. to 1.80 V/cell)		19.1 Ah
Rated capacity	19.36 Ah	(8hrs, 2.42 A, 1.75V/cell)
	16.08 Ah	(3hrs, 5.36A, 1.75V/cell)
	13.5 Ah	(1hr, 13.5A, 1.67V/cell)
Max. Discharge Current		300 A
Internal Resistance		9 mΩ
Operating Temp. Range	Discharge	-20 to 55°C (4 to 131°F)
	Charge	-20 to 40°C (-4 to 104°F)
	Storage	-15 to 50°C (5 to 122°F)
Nominal Operating Temp. Range		25 ±3 °C (77 ±5°F)
Short Circuit Current		1700 A
Max. Charging Current		6.0 A
Charge voltage	Float	13.5 V
	Temp Coefficient	-3 mV / cell / °C
Equalization		14.1 to 14.4 V
Self Discharge		≤3% /month

PHYSICAL SPECIFICATION

Dimension	Length	181.5 ± 2 mm (7.14 in)
	Width	77 ±1 mm (3.03 in)
	Height	166 ± 2mm (6.54in)
	Total Height	166 ± 2mm (6.54in)
Weight		6.4 Kg (14.1lb)
Terminal		M5
Container Mat. (Flame retardant)		ABS UL94 HB (Optional V0)
Recommended Torque		3 Nm (26.55 in -lb)
Maximum allowable torque		3.8 Nm (33.63 in -lb)



Compliance with:
IEC 60896 standard
CE, UL 1989, UL94 V-0
IATF16949, OHSAS 18001, ISO 9001, ISO 14001 certified production



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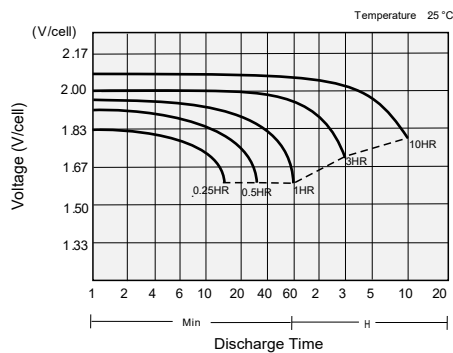
CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C (77°F)

Final V. / Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	61.2	45.1	41.9	31.7	21.7	15.9	12.6	9.23	7.23	5.20	4.13	3.52	3.01	2.36	1.88	0.979
1.80V/cell	66.4	47.4	43.5	32.7	22.2	16.2	12.9	9.39	7.34	5.28	4.19	3.57	3.05	2.39	1.91	0.990
1.75V/cell	71.7	49.6	45.1	33.7	22.8	16.6	13.1	9.54	7.46	5.36	4.25	3.61	3.09	2.42	1.93	1.00
1.70V/cell	77.1	52.0	46.7	34.7	23.3	16.9	13.3	9.70	7.58	5.43	4.31	3.66	3.13	2.45	1.95	1.01
1.67V/cell	80.3	53.4	47.7	35.3	23.6	17.1	13.5	9.79	7.65	5.48	4.34	3.69	3.15	2.47	1.97	1.02
1.60V/cell	87.5	56.6	49.9	36.7	24.3	17.5	13.8	10.0	7.80	5.59	4.43	3.75	3.21	2.51	2.00	1.03

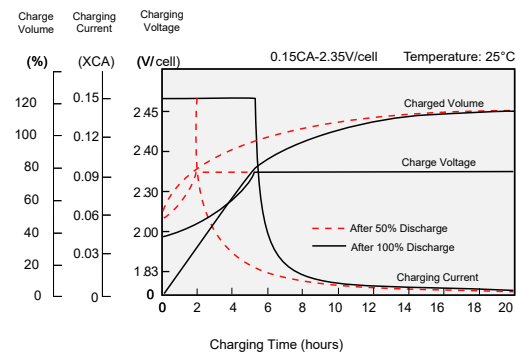
CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C (77°F)

Final V. / Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	116.3	86.2	80.5	61.0	41.9	30.9	24.6	18.0	14.2	10.2	8.15	6.95	5.95	4.69	3.93	2.06
1.80V/cell	125.4	90.1	83.5	62.7	42.8	31.4	25.0	18.3	14.3	10.4	8.25	7.03	6.02	4.74	3.97	2.08
1.75V/cell	134.6	93.9	85.8	64.2	43.6	31.9	25.3	18.5	14.5	10.5	8.35	7.11	6.09	4.80	4.02	2.10
1.70V/cell	143.7	97.8	88.4	65.8	44.4	32.4	25.7	18.8	14.7	10.6	8.45	7.19	6.16	4.85	4.06	2.12
1.67V/cell	149.1	100.1	90.0	66.8	44.9	32.7	25.9	18.9	14.8	10.7	8.50	7.24	6.20	4.88	4.09	2.13
1.60V/cell	160.9	105.3	93.4	68.9	46.0	33.4	26.4	19.3	15.1	10.9	8.64	7.35	6.30	4.96	4.15	2.16

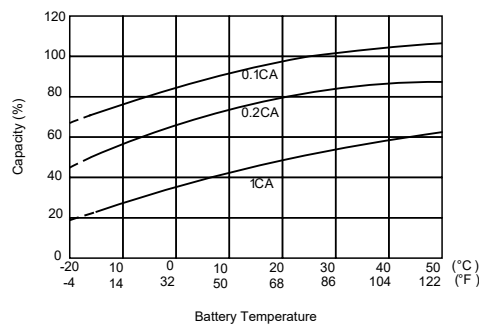
Discharge Characteristics



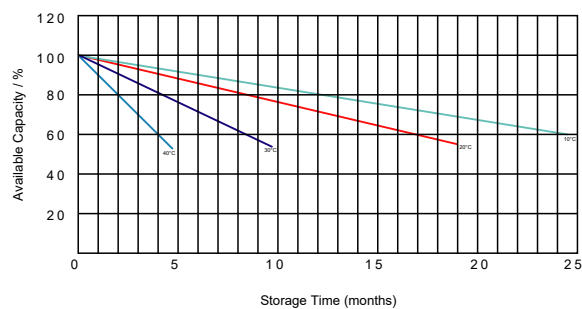
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



* Product specifications are subject to change without notice.
 * US-V2509-REV1.01
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