



OBS12620HRF (12V 620W)

High Rate VRLA Battery

Osonix HRF Serie Front Terminal Pure Lead Acid Batteries are designed with advanced technology to optimize performance and improve energy density. Utilize a special fine-mesh grid technology and specially formulated paste plates, which enhance the adhesion of the active material.

Features

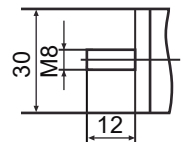
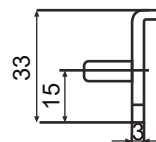
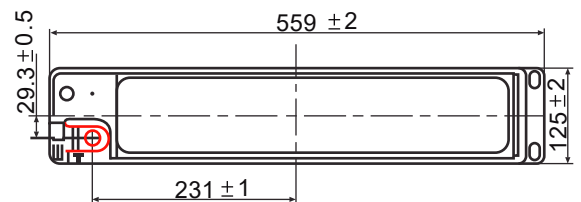
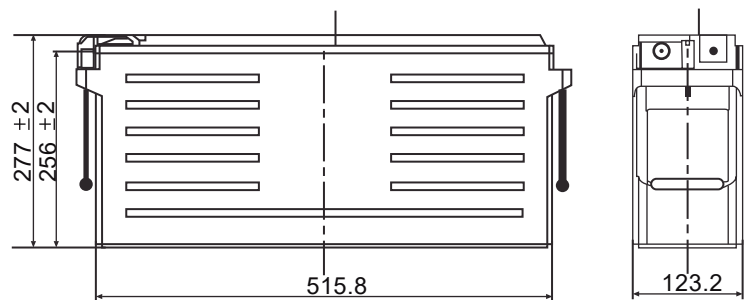
- Absorbent Glass Mat (AGM) technology, maintenance-free.
- Front terminals for easy installation, maintenance, and monitoring.
- Pure lead technology ensuring extended service life, 12+ years.
- Advanced welding technology ensures excellent high-current charge/discharge capacity.
- Oxygen recombination efficiency $\geq 98\%$.
- PbCaSn alloy grids - reduced gassing and lower self-discharge.
- Full compliance with IATA/ICAO regulations - A67 approved (unrestricted transport by rail, road, sea and air).

Applications

- Uninterruptible Power Supplies (UPS).
- Telecommunications Backup Power System.
- Emergency and Backup Power Sources.
- Power Plant Energy Storage Systems.
- Emergency Lighting.

PHYSICAL SPECIFICATION		
Dimension	Length	559 ±2 mm (22.01 in)
	Width	125 ±2 mm (4.92 in)
	Height	277 ±2 mm (10.91 in)
	Total Height	277 ±2 mm (10.91 in)
Weight		48.5 Kg (106.9 lb)
Terminal		M8
Container Mat. (Flame retardant)		ABS UL94 HB o V0
Recommended Torque		(11 ~ 14.7) N·m (97.35 ~ 130.1) in·lbs

SPECIFICATIONS Standard @ 25°C (77°F)		
Rated Voltage	12 V	
Nominal Capacity (W) (15 min to 1.67 V/cell)	620W	
Nominal Capacity (Ah) (10 h to 1.80 V/cell)	150 Ah	
Rated Capacity	159Ah	(20hrs, 7.95A, 1.80V/cell)
	150.4 Ah	(8hrs, 18.8A, 1.75V/cell)
	125.7 Ah	(3hrs, 41.9A, 1.75V/cell)
	113 Ah	(1hr, 113.2A, 1.60V/cell)
Max. Discharge Current	1800 A (5s)	
Internal Resistance	3.6 mΩ	
Operating Temp. Range	Discharge	-40~65°C (-40~149°F)
	Charge	0~40°C (32~104°F)
	Storage	-20~40°C (-4~104°F)
Max. charge Current	45 A	
Charge Voltage (25°C)	Float	13.62 V
	Temp. Coefficient	-3mV/cell/°C
	Equalization	14.1 ~ 14.4V
Design Life	≥ 15 years	



Unit: mm

Compliance:
IEC 60896

CE, UL 1989, UL94 HB o V-0

Certified production IATF16949, ISO 9001, ISO 14001



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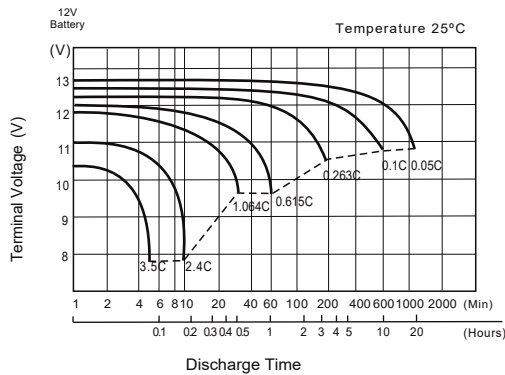
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V / Time	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.85V/cell	376.6	292.5	249.5	218.6	162.6	124.5	98.3	54.1	39.2	31	24.9	17.9	14.7	7.69
1.80V/cell	433.6	337.2	278.3	238.8	173.7	130.7	102.2	56.6	40.9	32.3	26.1	18.5	15	7.95
1.75V/cell	474	369.1	301.5	254.9	184.8	136.2	106	58.2	41.9	32.2	26.7	18.8	15.2	8.07
1.70V/cell	510.7	399.1	320.8	268.1	191.9	141	108.6	59	42.7	33.7	27.1	19	15.4	8.14
1.67V/cell	570	420.4	338.3	278.5	199.7	145.5	111.4	60.1	43.2	34.2	27.4	19.2	15.5	8.2
1.60V/cell	614.3	445.5	355.8	290.7	202.1	148.4	113.2	61	43.7	34.6	27.7	19.4	15.6	8.25

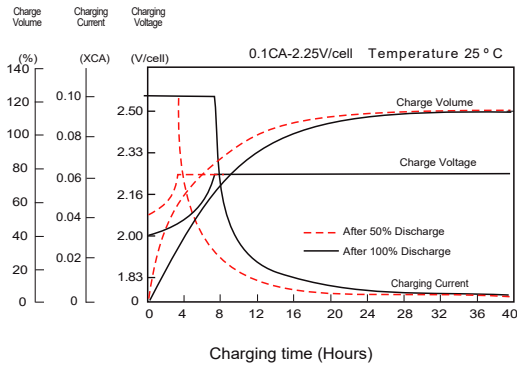
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V / Time	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.85V/cell	705.8	561.5	484.7	425.3	318.6	246.3	194.9	108	78.3	62.3	50.2	36.2	29.8	15.7
1.80V/cell	803.7	640.6	536.7	461.8	338.3	256.6	201.6	112.3	81.4	64.5	52.2	37.3	30.4	16.2
1.75V/cell	867.8	693.4	575.5	488.4	357	265.7	207.5	114.9	83	66	53.3	37.8	30.7	16.4
1.70V/cell	926.3	740.1	606.3	508.8	367.6	273.1	211.3	116.2	84.3	66.8	53.9	38	31	16.5
1.67V/cell	950	769.4	620	523.1	384	280.3	215.7	117.7	85	67.5	54.3	38.3	31.1	16.5
1.60V/cell	1007	803.7	636.2	540.2	389	283.1	217.5	118.6	85.4	67.9	54.8	38.5	31.3	16.5

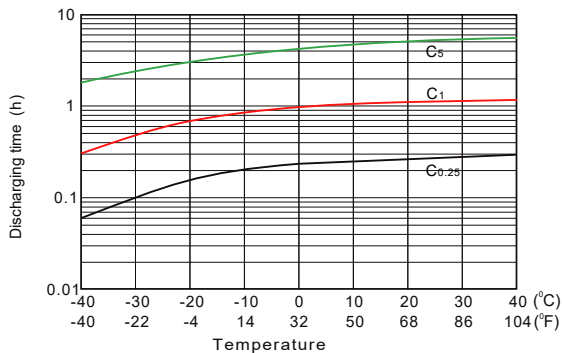
Discharge Characteristics



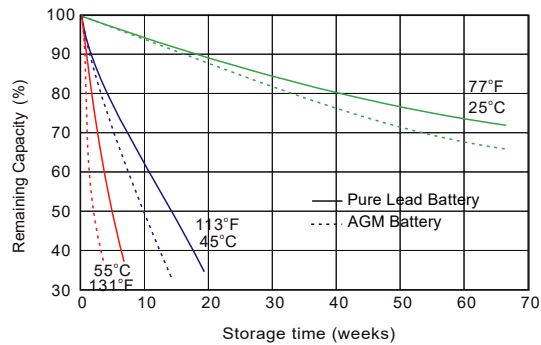
Float Charging Characteristics



Effects of Temperature on Discharging Time



Self-discharge Characteristics



* The OBS12620HRF can be stored for up to 24 months at 25°C (77°F). For higher temperatures, the storage time will be shorter.
 **Charging should be done when the OCV (Open Circuit Voltage) approaches 2.10 V/cell or when the maximum storage time is reached, whichever comes first.

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