



OBS12700PHRF (12V 700W)

VRLA High Rate Pure Lead Battery

Osonix PHRF 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

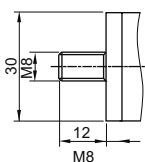
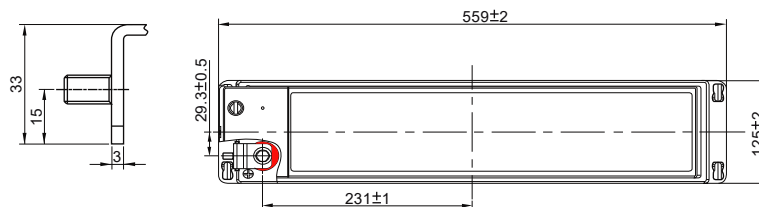
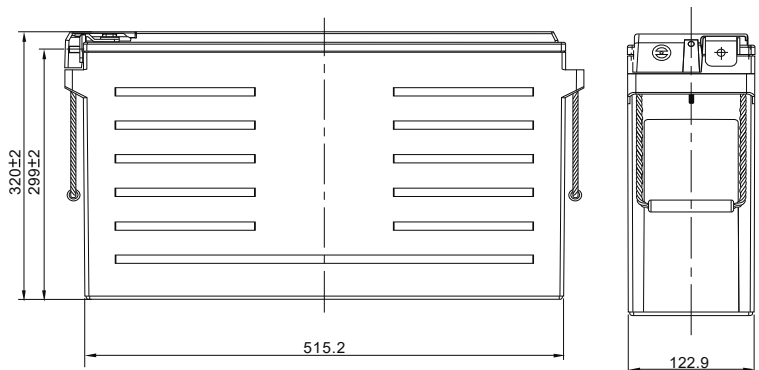
- Absorbent Glass Mat (AGM) technology, maintenance-free.
- Front terminals for easy installation, maintenance, and monitoring.
- Pure lead technology ensuring extended service life, 12+ years.
- Advanced welding technology ensures excellent high-current charge/discharge capacity.
- Oxygen recombination 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 SPECIFICATIONS		
Dimensions	Length	559 mm (22.01 in)
	Width	125 mm (4.92 in)
	Height	320 mm (12.6 in)
	Total Height	320 mm (12.6 in)
Weight	58 Kg (127.9 lb)	
Terminal	M8	
Container (Flame Retardant)	ABS UL94 HB o V0	
Recommended Torque	(11 ~ 14.7) N·m (97.35 ~ 130.1) in·lbs	

SPECIFICATIONS		Condition @ 25°C (77°F)	
Nominal Voltage	12 V		
Capacity (W) (15 min at 1.67 V/cell)	700W		
Capacity (Ah) (10 h at 1.80 V/cell)	190 Ah		
Capacity	180 Ah	(8hrs, 22.5A, 1.75V/cell)	
	148.8 Ah	(3hrs, 49.6A, 1.75V/cell)	
	136 Ah	(1hr, 136A, 1.60V/cell)	
Max. Discharge Current	2280 A (5 s)		
Internal Resistance	3 mΩ		
Operating Temperature	Discharge	-40 ~ 65°C (-40 ~ 149°F)	
	Charge	-20 ~ 54°C (-4 ~ 129°F)	
	Storage	-20 ~ 50°C (-4 ~ 122°F)	
Max. Charge Current	57 A		
Charge Voltage	Float	13.50 ~ 13.74V	
	Equalization	14.1 ~ 14.4V	
Temperature Coefficient	-3mV/cell/°C		
Useful Life	≤15 years		



Compliant with:
IEC 60896 Standard
CE, UL 1989, and UL94 V-0 Certifications
IATF16949, ISO 9001, and ISO 14001 Certified Production



Unit: mm

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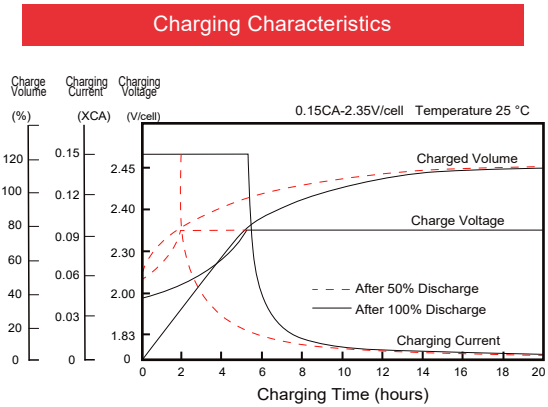
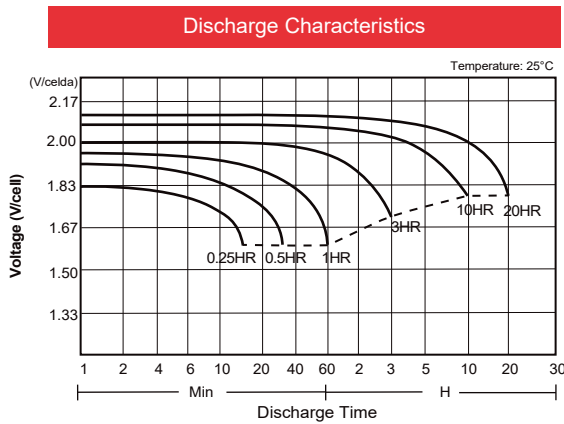


Constant Current Discharge (Amperes) at 25°C (77°F)

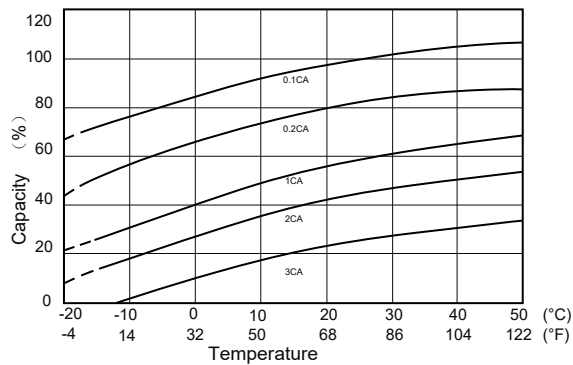
F.V. / Time	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.85V/cell	390.6	331.5	290.2	249.5	188.7	139.1	112.5	80.8	64.9	46.8	36.8	30.7	21.4	18.4	9.58
1.80V/cell	448.7	370.6	323.7	275.7	203.5	148	118.8	84.4	67.2	48.6	38	31.7	22.1	19	9.88
1.75V/cell	488.8	399.5	344.5	294.1	216.2	155.5	124.5	87.3	68.7	49.6	39	32.5	22.5	19.3	10.1
1.70V/cell	535.7	428	362.3	306.9	226.5	162.2	128.6	89.9	70.5	50.7	39.8	33.1	22.9	19.5	10.2
1.67V/cell	641.3	453.1	374.1	319.2	234.6	167.4	133	92.2	71.8	51.3	40.1	33.5	23.3	19.6	10.3
1.60V/cell	656	477.7	390.1	327.6	241.6	172.1	136	94	73	51.6	40.5	33.8	23.4	19.8	10.4

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

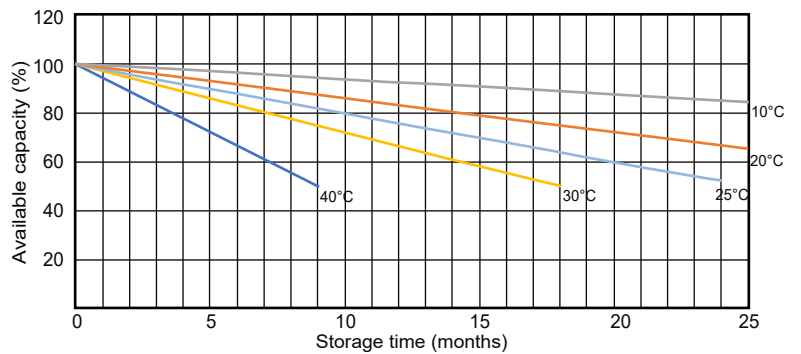
F.V. / Time	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.85V/cell	730.9	636.4	560.3	485.5	369.7	275.2	223.2	160.8	129.6	93.7	73.9	61.8	43.5	37.4	19.5
1.80V/cell	832.4	704.1	621.8	533.1	396.3	290.8	234.1	167	133.4	96.8	76	63.6	44.5	38.5	20.1
1.75V/cell	898.8	750.5	657.6	563.4	417.4	303.2	243.7	171.8	135.8	98.4	77.5	64.8	45.3	39	20.4
1.70V/cell	959.4	793.6	684.9	582.5	434	314.3	250.5	176	138.8	100.2	78.9	65.8	46.1	39.3	20.6
1.67V/cell	983.9	829.2	700	599.6	450.3	322.6	257.5	179.6	140.7	101	79.3	66.5	46.6	39.4	20.7
1.60V/cell	1043	861.8	704.9	608.6	465	328.4	261.3	181.8	142	101	79.7	66.8	46.7	39.7	20.8



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



* Product specifications are subject to change without notice
 * USA-V2606-REV1.01
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