

OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards and with DIN40736-2/IEC60896-11 positive spine and patent formula of die-casting active material. OPzS series exceeds standard values with more DIN40736-2/IEC60896-11 than 20 years floating design even more suitable for life at 25°C and is cyclic use(PV/solar, traction etc) under extreme operating conditions.

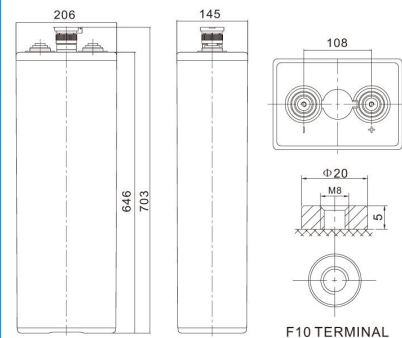


Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	600Ah@10hr-rate to 1.85V per cell @25°C
Weight	Without Electrolyte 34.4kg/With Electrolyte 46.4kg
Internal Resistance	Approx. 0.45 mΩ
Terminal	F10(M8)
Max. Discharge Current	2500A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	90.0 A
Reference Capacity	C24 718.2AH C48 808.0AH C72 848.4AH C100 867.8AH C120 885.2AH C240 900.0AH
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.40 V~2.45 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~50°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	GERCH Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3.5% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	145±1mm (5.71 inches)
Width	206±1mm (8.11 inches)
Height	646±1mm (25.4 inches)
Total Height	703±1mm (27.7 inches)
Torque Value	10~12 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	319.3	253.1	178.4	136.0	107.7	95.8	83.79	65.39	56.07	32.25
1.87V	356.9	279.0	191.4	144.8	113.7	101.3	88.83	68.44	58.59	33.69
1.83V	408.8	311.5	207.6	154.9	119.7	105.8	91.98	71.50	61.11	35.14
1.80V	454.2	337.4	215.4	159.4	122.1	108.3	94.50	73.33	63.00	36.22
1.75V	506.1	361.4	225.2	164.5	124.1	110.2	96.39	74.55	64.26	36.94
1.70V	558.1	373.1	231.7	168.4	126.3	112.0	97.65	75.17	64.89	37.32
1.65V	575.6	396.5	239.4	172.6	128.1	113.5	98.91	75.78	65.52	37.68
1.60V	600.2	410.1	248.5	178.4	131.7	115.9	100.2	76.39	66.15	38.04

Constant Power Discharge Characteristics : WPC(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	611.1	485.8	345.0	264.5	210.8	188.2	165.7	130.8	114.3	65.71
1.87V	672.4	527.6	365.9	279.7	222.2	198.7	175.1	136.3	119.2	68.52
1.83V	753.2	575.2	389.3	295.5	233.0	206.9	180.8	141.2	123.4	70.97
1.80V	823.0	613.7	402.4	303.4	237.4	211.4	185.2	144.2	126.5	72.74
1.75V	892.8	641.1	415.4	310.5	240.6	214.5	188.4	146.1	128.3	73.78
1.70V	957.3	647.6	425.9	317.0	244.4	217.4	190.3	147.3	129.6	74.49
1.65V	973.7	676.3	437.6	323.6	247.6	219.8	192.2	148.5	130.2	74.85
1.60V	985.4	697.1	448.0	331.5	253.9	223.7	193.4	149.1	130.8	75.19

(Note)The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

