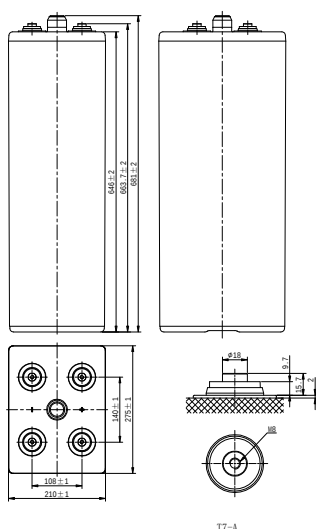


OPzV SERIES-TUBULAR GEL

12OPzV1200 (2V1200Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	1200Ah
Dimension	Length	275mm(10.8inches)
	Width	210mm(8.27inches)
	Container Height	646mm(25.4inches)
	Total Height	681mm(26.8inches)
Approx Weight	91.2kg(201.1lbs)	
Terminal	T7-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	7200A	
Internal Resistance (25°C)	Approx 0.43 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	0~40°C (32~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.25C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.40-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	106%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F)	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	525.6	355.4	286.8	196.1	137.5	121.5	56.1	29.3	21.1	16.0	13.8
1.80V/cell	601.2	397.2	317.9	221.6	154.2	134.4	59.7	31.3	22.5	16.8	14.6
1.75V/cell	625.1	411.0	325.2	226.0	156.8	136.8	60.0	32.1	23.1	17.2	14.8
1.70V/cell	652.4	421.4	331.7	229.4	159.1	138.2	61.0	32.6	23.3	17.4	15.0
1.67V/cell	669.5	428.3	337.8	233.1	160.9	139.4	61.6	32.9	23.5	17.7	15.2
1.60V/cell	679.8	435.2	341.8	235.3	162.0	140.6	62.1	33.4	23.7	17.9	15.3
Constant Power Discharge (Watts/cell) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	992.3	680.0	553.7	382.6	271.3	240.4	111.5	58.4	42.2	32.0	27.6
1.80V/cell	1131.5	757.9	612.7	431.7	304.0	265.4	118.7	62.4	44.9	33.7	29.3
1.75V/cell	1157.7	780.5	624.4	439.0	308.1	269.4	119.0	63.8	46.1	34.3	29.6
1.70V/cell	1203.0	796.9	634.2	443.9	311.3	271.7	120.8	64.7	46.4	34.7	30.0
1.67V/cell	1231.2	808.2	644.8	450.3	314.4	273.6	121.7	65.3	46.8	35.3	30.4
1.60V/cell	1233.8	816.4	649.4	452.8	315.3	275.1	122.5	65.9	46.9	35.7	30.5

OPzV SERIES-TUBULAR GEL

12OPzV1200 (2V1200Ah)



APPLICATIONS

- Float charging applications: communication center, telecom basestation, UPS, power station, electric substation
- Solar and wind energy storage system
- Off-grid and bad-grid hybrid sites

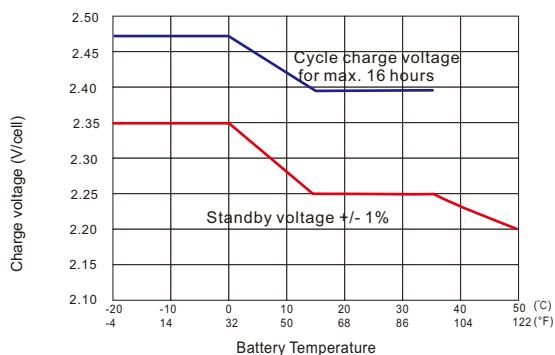
GENERAL FEATURES

- 20 year design life (20°C)
- Strong Lead-calcium alloy tubular plate technology - for longer life in the toughest conditions
- Gelled electrolyte for superior thermal management, long float life
- Proof against deep discharge - greater long-term energy delivery
- Exceptional cycling performance - 2500+ cycles at 60% Depth of Discharge

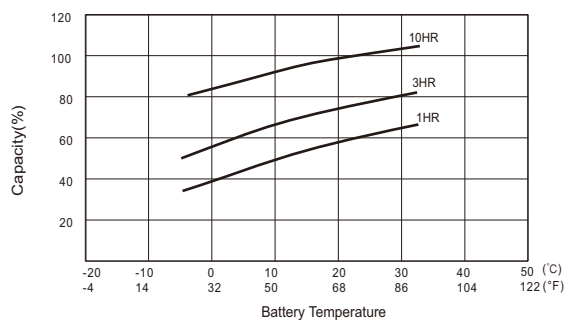
STANDARDS

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Approved
- Manufactured in DESA ISO 45001, ISO 9001 and ISO 14001 certified production facilities

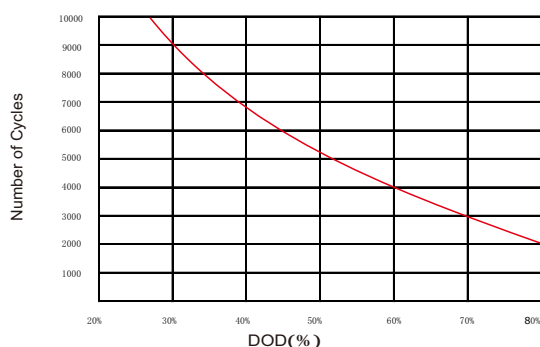
Charge Voltage vs Ambient Temperature Curve



Temperature Effects in Relation to Capacity



Cycle life



Self Discharge Characteristics

