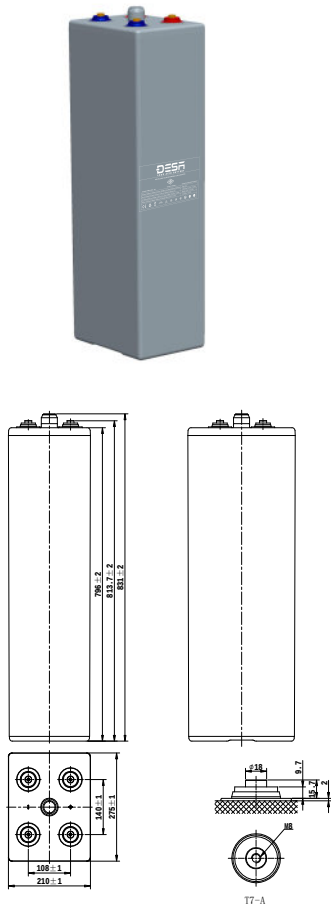


OPzV SERIES-TUBULAR GEL

12OPzV1500 (2V1500Ah)



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25°C)		C ₁₀ , 1.80V/cell 1500Ah
Dimension	Length	275mm(10.8inches)
	Width	210mm(8.27inches)
	Container Height	796mm(31.3inches)
	Total Height	831mm(32.7inches)
Approx Weight		111.5kg(245.8lbs)
Terminal		T7-A(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		7500A
Internal Resistance (25°C)		Approx 0.38 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	657.0	444.2	358.4	245.2	171.9	151.8	70.1	36.6	26.4	20.0	17.2
1.80V/cell	751.5	496.5	397.4	277.0	192.8	168.0	74.6	39.2	28.1	21.1	18.3
1.75V/cell	781.4	513.8	406.5	282.5	196.0	170.9	75.1	40.1	28.8	21.5	18.5
1.70V/cell	815.5	526.7	414.5	286.7	198.8	172.8	76.2	40.8	29.2	21.8	18.8
1.67V/cell	836.9	535.4	422.2	291.4	201.2	174.3	77.0	41.3	29.4	22.1	19.0
1.60V/cell	849.7	544.0	427.2	294.2	202.6	175.7	77.7	41.7	29.6	22.4	19.2

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	1240.4	849.8	692.1	478.5	339.2	300.5	139.5	73.1	52.7	40.0	34.6
1.80V/cell	1414.3	947.3	765.8	539.6	380.0	331.8	148.3	78.1	56.1	42.2	36.6
1.75V/cell	1447.2	975.7	780.4	548.7	385.2	336.7	148.8	79.7	57.5	43.0	37.0
1.70V/cell	1503.8	996.0	792.6	554.8	389.1	339.8	150.9	81.0	58.1	43.5	37.6
1.67V/cell	1539.1	1010.3	806.0	563.0	393.2	341.9	152.2	81.8	58.4	44.1	37.9
1.60V/cell	1542.2	1020.5	811.8	566.0	394.3	343.9	153.1	82.4	58.7	44.5	38.3

OPzV SERIES-TUBULAR GEL

12OPzV1500 (2V1500Ah)

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

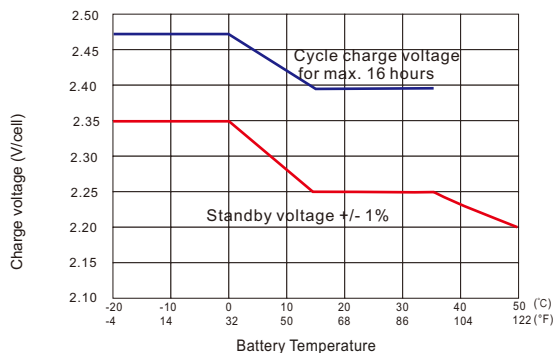
GENERAL FEATURES

- 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

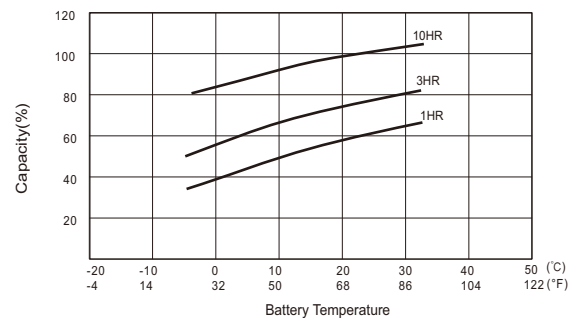
STANDARDS

- 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

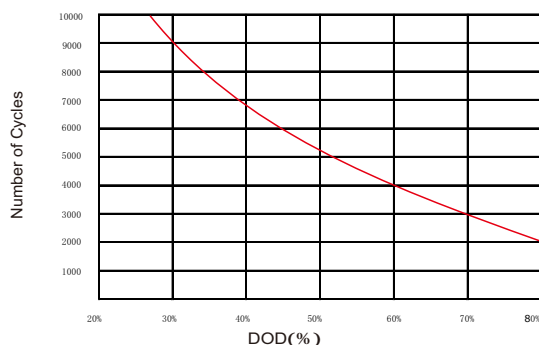
Charge Voltage vs Ambient Temperature Curve



Temperature Effects in Relation to Capacity



Cycle life



Self Discharge Characteristics

