



# Solar Series-Tubular Gel

## 20 OPzV2500(2V3250Ah)

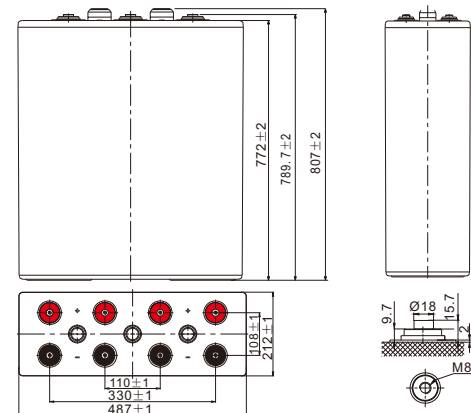


### Specifications

Rated Voltage	2V	
Nominal Capacity	3250Ah	(C <sub>100</sub> , 1.80V/cell)
Dimension	Length	487mm(19.17 in.)
	Width	212mm(8.34 in.)
	Container Height	772mm(30.39 in.)
	Total Height	807mm(31.77 in.)
Approx Weight	196.0Kg (432.11 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	3372.0 Ah	(120hr, 28.1A, 1.80V/cell)
	3250.0 Ah	(100hr, 32.5A, 1.80V/cell)
	3124.8 Ah	(72hr, 43.4A, 1.80V/cell)
	2500.0 Ah	(10hr, 250.0A, 1.80V/cell)
Max. Discharge Current (5s)	20000A	
Internal Resistance(25°C)	Approx.0.25mΩ	
Operating Temp.Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current(25°C)	625.0A	
Charge voltage(25°C)	Float	2.25V
	Temp. Coefficient	-3mV/cell/°C
	Cycle(Equalization)	2.35~2.40V
Effect of temp. to Capacity	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C	



### Layout



### 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	1117.3	755.5	580.0	396.8	278.1	234.3	111.3	58.2	41.8	31.7	27.3
1.80V/cell	1252.5	827.5	630.8	427.5	297.5	250.0	115.1	60.4	43.4	32.5	28.1
1.75V/cell	1302.3	856.3	645.2	436.1	302.5	254.3	115.8	61.8	44.5	33.2	28.5
1.70V/cell	1359.2	877.9	658.0	442.5	306.8	257.1	117.7	63.0	44.9	33.6	28.9
1.67V/cell	1394.8	892.3	670.2	449.7	310.4	259.3	118.8	63.6	45.3	34.2	29.3
1.60V/cell	1416.2	906.7	678.1	454.0	312.6	261.4	119.8	64.4	45.6	34.6	29.6

### 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	2156.3	1467.9	1131.3	779.2	551.2	465.7	222.4	116.4	84.0	63.7	55.0
1.80V/cell	2412.5	1604.6	1224.4	836.4	589.3	496.4	229.7	120.8	87.0	65.3	56.6
1.75V/cell	2490.8	1640.6	1245.9	850.7	597.9	503.6	231.0	123.4	89.2	66.5	57.3
1.70V/cell	2576.2	1676.6	1267.4	865.0	604.3	508.6	234.5	125.6	89.9	67.4	58.1
1.67V/cell	2626.0	1705.4	1288.9	872.2	610.1	512.9	236.3	126.8	90.6	68.5	58.7
1.60V/cell	2654.4	1719.8	1296.0	879.3	613.0	515.7	238.0	128.1	91.1	69.1	59.3



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### Applications

- Green energy systems (solar, wind, hydro, etc)
- Telecommunications installations
- Solar power stations
- Alarm installations
- Railway crossing
- Street lightening
- Pump systems
- Signal station
- Street signs
- Traffic lights
- Lawn lamp

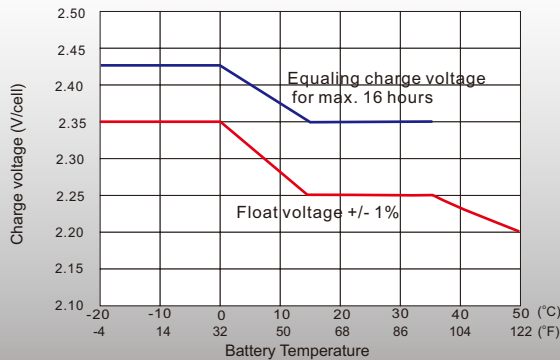
### General Features

- 20 years design life(20°C)
- Better recovery performance
- Wide working temperature range (-20~55°C)
- No electrolyte stratification provides longer service life
- High recombination efficient
- Built in copper core based in lead will carry large current
- Separator imported form AMER-SIL high porosity. PVC-SiO<sub>2</sub> and low resistance
- Pasted negative plate special grid design increase the active material. availability large current discharge and charge ability
- Tubuler type positive plate (polyester tube) prevent the active material from falling. Muti metal alloy pressed positive grid increase the anti corrosion ability and service life

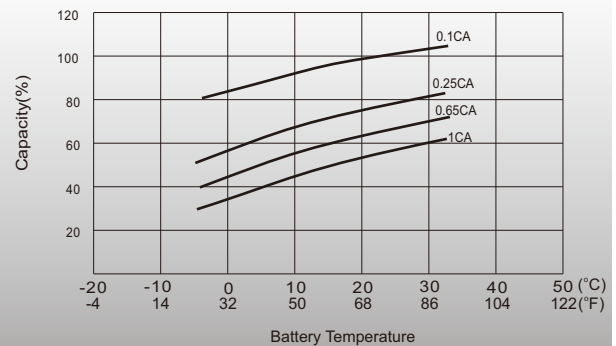
### Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

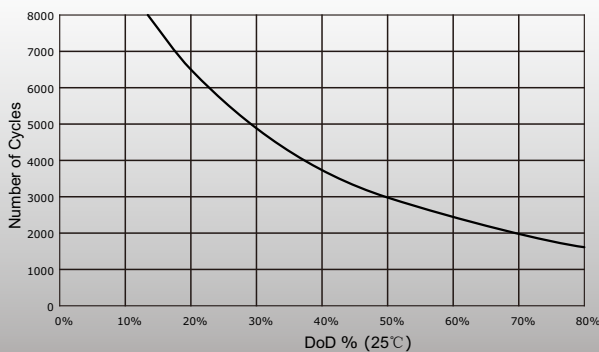
### Charge voltage vs ambient temperature curve



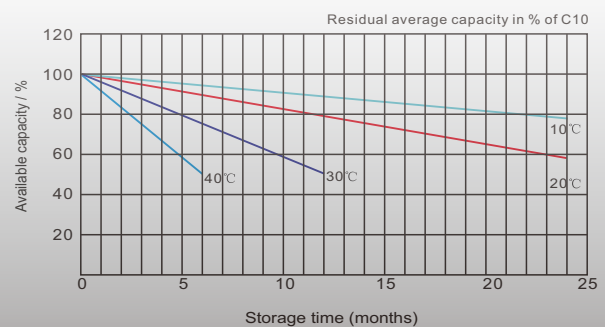
### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### General Relation of Capacity VS. Storage Time



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