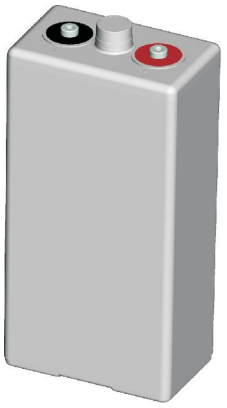
MAIN NEW ENERGY CO.,LTD

Tubular Gel Battery

OPzV300 (2V300AH)



Nomial Voltage	2V	
Capacity	300.0Ah@10hr to 1.80V/cell	
Dimension	Length	145±2mm (5.17 inches)
	Width	206±3mm (8.11 inches)
	Container Height	355±3mm (14.0 inches)
	Total Height (with Terminal)	390±3mm (15.3 inches)
Approx Weight	Approx 26.0 kg (57.3lbs)	
Container Material	ABS	
Rated Capacity	300 AH/30.0A	(10hr,1.80V/cell,20°C/68°F)
	263 AH/52.6A	(5hr,1.75V/cell,20°C/68°F)
	233.7 AH/77.9A	(3hr,1.75V/cell,20°C/68°F)
	171 AH/171A	(1hr,1.60V/cell,20°C/68°F)
Max. Discharge Current	2400A (5s)	
Internal Resistance	Approx 1.0mΩ	
Operating Temp.Range	Discharge : -20~55°C (-4~131°F) Charge : 0 40°C (32 104°F) Storage : -20~50°C (-4~122°F)	
Cycle Use	Initial Charging Current less than 75.0A.Voltage 2.40V~2.50V at 20°C(68°F)Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 2.25V~2.30V at 20°C(68°F)Temp. Coefficient -3mV/°C	
Self-discharge	<2% pre month @ 20°C(68°F)	

Applications

- *Solar energy, wind energy*
- *Electric power, nuclear power*
- *Communication*
- *Ship, maritime affairs*
- *UPS, medical facilities and emergency lighting*
- *Situation with high environmental protection and energy-saving*
- *Better safety performance and reliability*
- *Designed service life of 20 years*

Main Technical Advantages

- Plate: positive plate adopts tubular plate which can prevent active material falling, and adopts multi-component alloy frame. have fine corrosion-resisting performance and long service life. Negative plate adopts special radiated structure.
- Separator: adopt special micro-pore PVC-SiO_2 separator from Europe AMER-SIL Company, separator have big porosity and low resistance.
- Electrolyte: adopts Germany gas silicon dioxide,electrolyte in gel state in the battery without flowing,leakage and lamination can be avoided.
- Safety valve: adopt Germany technology,constant opening and closing,accumulator case expansion,damage and electrolyte dry up can be avoided.

Constant Current Discharge (Amperes) at 20 °C (68°F)

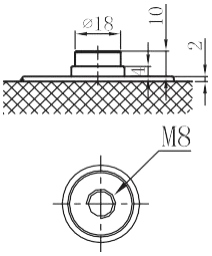
F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	256	233	183	135	91.2	70.0	47.8	33.3	28.1
1.80V/cell	315	282	214	152	100	76.2	51.6	35.7	30.0
1.75V/cell	373	316	228	158	103	77.9	52.6	36.3	30.5
1.70V/cell	418	344	241	164	106	79.5	53.4	36.8	30.8
1.65V/cell	449	364	251	168	108	81.0	54.2	37.2	31.1
1.60V/cell	470	377	257	171	109	81.9	54.8	37.5	31.4

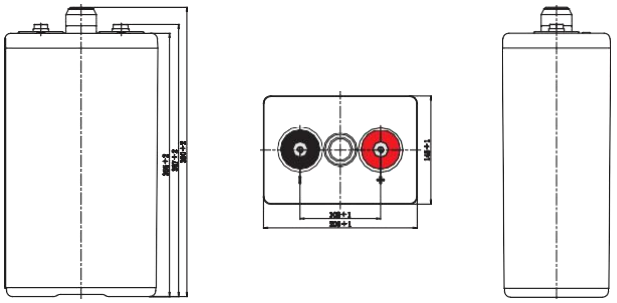
Constant Power Discharge (Watts) at 20 °C (68°F)

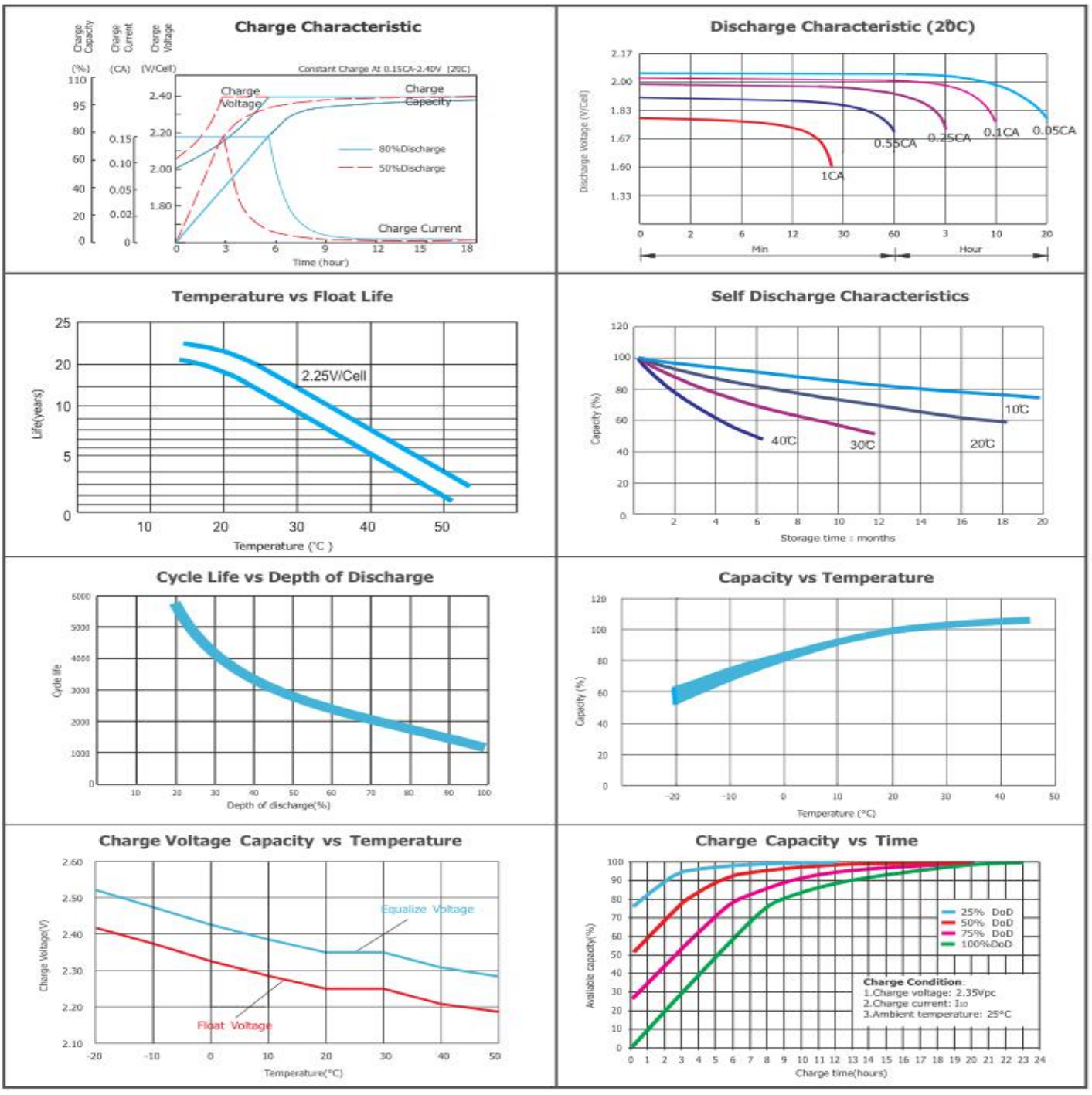
F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	476	438	350	260	177	137	94.1	66.1	55.9
1.80V/cell	576	522	404	291	194	148	101	70.6	59.6
1.75V/cell	669	577	426	301	198	151	103	71.7	60.4
1.70V/cell	738	620	447	311	202	153	104	72.4	61.0
1.65V/cell	778	645	460	317	205	155	105	73.1	61.5
1.60V/cell	799	658	467	321	207	157	106	73.5	61.9

Dimensions

T11 Terminal







WWW.MAIN-NEWENERGY.COM