

Solar battery (Gel)

Model: WT-SG100-12 (12V100AH)

Application

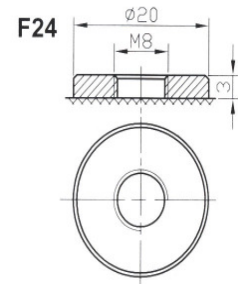
- Solar system
- Wind system
- Communication equipment
- Security and control equipment
- Mobile electrical devices



General features

- Excellent recovery from deep discharge
- Extremely low self-discharge rate
- Longer life in deep cycle applications
- High power density and quality

Terminal



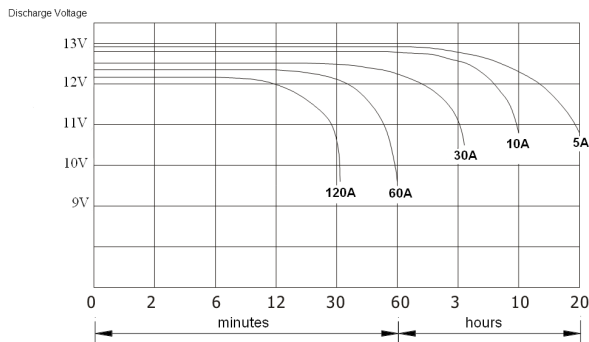
Nominal voltage	12V			
Nominal capacity	100AH			
Dimensions	length	width	container height	total height
	330mm	170mm	217mm	235mm
Rated Capacity (25°C)	10HR (10A)	20HR (515A)	120HR (0,88A)	240HR (0,45A)
	100AH	103AH	106AH	110AH
Weight	31Kg			
Internal Resistance	Fully charged at 25°C: 0,0045Ohm			
Capacity affected by Temperature (10HR)	40°C	25°C	0°C	
	103%	100%	86%	

Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 20A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77F). 3. Hold at 14.1V to 14.4V until current drop to under 0.6A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 20A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 9 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	

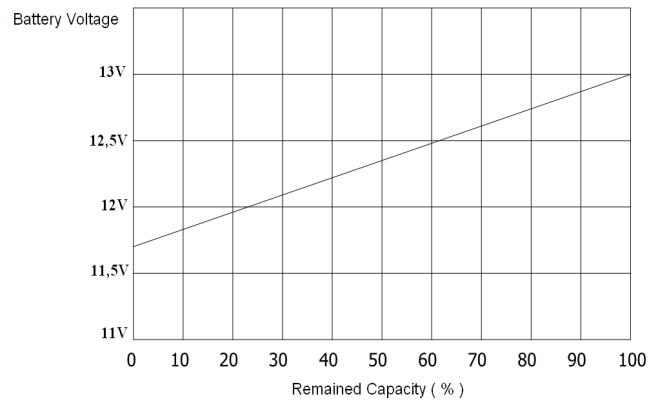
Constant Discharge Data Sheet (Amperes at 25°C)

Voltage / Time	1h	2h	4h	8h	10h	20h	48h	96h	120h	240h
10,2V	64.75	35.74	21.98	12.41	10.10	5.44	2.15	1.08	0.85	0.43
10,5V	62.97	33.76	20.89	12.00	10.05	5.38	2.09	1.05	0.83	0.41
10,8V	61.29	31.68	19.90	11.59	10.00	5.32	2.03	1.02	0.81	0.40
11,1V	59.50	30.10	18.91	11.19	9.95	5.26	1.96	0.99	0.79	0.39
11,4V	57.82	27.62	17.82	10.77	9.90	5.19	1.90	0.96	0.77	0.38

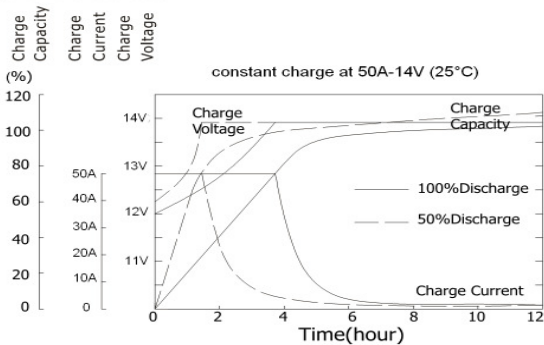
Discharge Characteristic 25°C



Relationship of OCV and state of charge



Charge Characteristic



Life expectancy cycle use

- 100% depth of discharge: 350 cycles
- 80% depth of discharge: 600 cycles
- 50% depth of discharge: 900 cycles
- 30% depth of discharge: 1500 cycles
- 20% depth of discharge: 1700 cycles



Westech-Soar GmbH
 Robert Koch Str. 3a
 82152 Planegg
 www.westech-solar.com

Tel : +49 89 89545770
 Fax : +49 89 89545771
 E-mail : verkauf@westech-solar.de