

Solar battery (Gel)

Model: WT-SG75-12 (12V 75AH)

Application

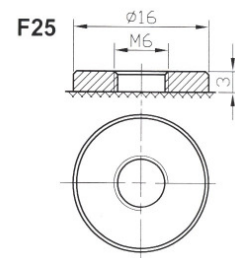
- Solar system
- Wind system
- Communication equipment
- Security and control equipment
- Mobile electrical devices



General features

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

Terminal



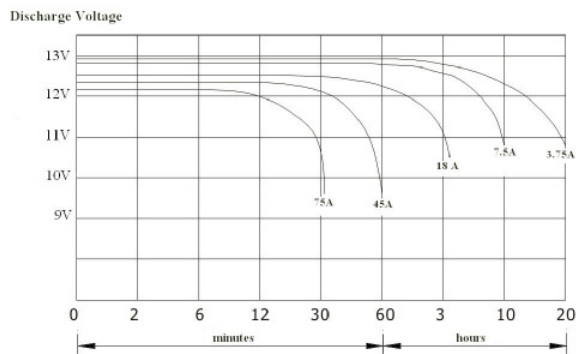
Nominal voltage	12V			
Nominal capacity	75AH			
Dimensions	length	width	container height	total height
	260mm	168mm	208mm	228mm
Rated Capacity (25°C)	10HR (7.5A)	20HR (3.75A)	120HR (0.625A)	240HR (0.31A)
	75AH	76.5AH	77.25AH	78AH
Weight	23.2Kg			
Internal Resistance	Fully charged at 25°C: 0,005Ohm			
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 15A. 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 0.45A 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 15A 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>	

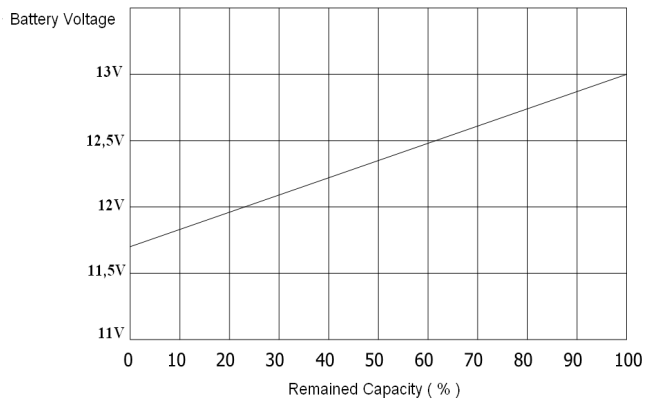
Constant Discharge Data Sheet (Amperes at 25°C)

Voltage / Time	1h	2h	4h	8h	10h	20h	48h	96h	120h	240h
10,2V	43.50	26.93	16.54	9.150	7.575	3.900	1.782	0.934	0.777	0.398
10,5V	41.25	25.36	15.78	9.075	7.538	3.863	1.774	0.927	0.769	0.394
10,8V	39.38	23.84	15.00	9.000	7.500	3.825	1.752	0.919	0.762	0.390
11,1V	36.49	22.32	14.22	8.775	7.388	3.788	1.725	0.915	0.750	0.387
11,4V	34.02	20.75	13.40	8.513	7.275	3.713	1.699	0.912	0.739	0.383

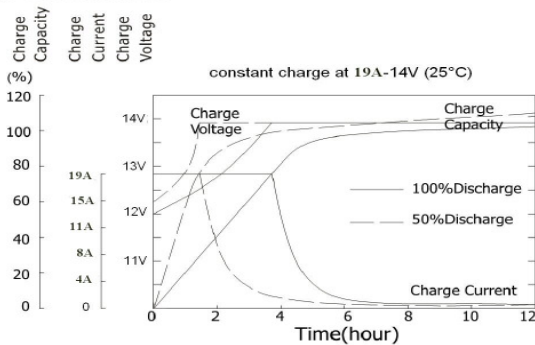
Discharge Characteristics 25°C



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



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