







Solar battery (Gel)

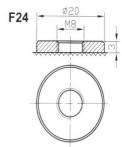
Model: WT-SG100-12 (12V100AH)

Application

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



Terminal



General features

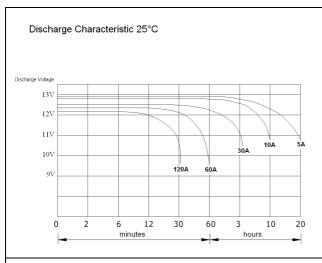
- Excellent recovery from deep discharge
- Extremely low self-discharge rate
- Longer life in deep cycle applications
- High power density and quality

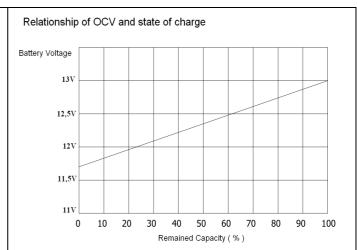
Nominal voltage	12V							
Nominal capacity	100AH							
Dimensions	lenght		width	container heigh	nt t	otal height		
	330mm		170mm	217mm		235mm		
Rated Capacity (25°C)	10HR (10A)	20H	HR (515A)	120HR (0,88A) 240	0HR (0,45A)		
	100AH		103AH	106AH		110AH		
Weight	31Kg							
Internal Resistance	Fully charged at 25°C: 0,0045Ohm							
Capacity affected by Temperature	40°C		25°C		0°C			
(10HR)	103%		10	00%	86%			

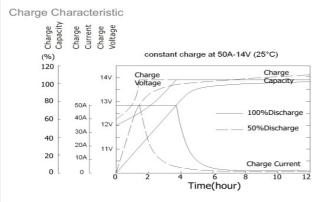
Cycle application	1.	Limit initial current less than 20A.
	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77F).
	3.	Hold at 14.1V to 14.4V until current drop to under 0.6A for at least 3 hours.
	4.	Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	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

NOTE: The battery should be charged within 9 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

	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	







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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