

EA-POWER-TS12-5 Lead-acid Solution

By combining the newly developed Nanometer Gel electrolyte, high tin content cathode plate, and AGM separator, TS series battery enjoys excellent discharging performance, long cycle life, and stable performance at high and low-temperature surroundings. TS series is suited for all kinds of ranges for energy storage, especially for renewable solar energy systems, etc.



AGM BATTERY

Application

NO.	DETAIL
1	UPS /EPS
2	Power systems
3	Telecommunications system
4	Emergency lighting, Auto control system
5	Solar / Wind generating storage cyclic
6	Other general purpose

General Features

NO.	DETAIL
1	High corrosion resistant performance: Pb-Camulti-alloy grid
2	High energydensity and power density
3	Optimized capability of instant high-current discharging
4	Excellent charge acceptance ability
5	Excellent deep cycle dischargecapability
6	Stronghigh and low temperature performance
7	Precision sealing technology

Specification

ITEM		DETAIL							
Nominal Voltage V		12 V							
Nominal Capacity AH		5 AH							
Design Life Years		5 Years							
Terminal		F1 / F2							
Approx. Weight Kg		Approx. 1.55 kg (3.42 lbs)							
Container Material		ABS							
		5.0 AH (20 Hour Rate : 0.25 A to 10.5 V)							
Rated Capacity	AH	3.81 AH (3 Hour Rate : 1.27 A to 10.2 V)							
		3.49 AH (1 Hour Rate : 3.49 A to 9.6 V)							
Internal Resistance		Full charged at 25 °C: 36.0 mΩ							
Maximum Discharge Current	A	60 A (5S)							
	°C/‡	Discharge: -20 ~ 50 °C (-4 ~ 122 °F)							
Operating Temperature		Charge: -20 ~ 50 °C (-4 ~ 122 °F)							
		Storage: -20 ~ 50 °C (-4 ~ 122 °F)							
		Charge Current: Maximum 1.25 A / Recommended 0.5 A)							
Charge Method (25 °C)		Float Charge: 13.5 ~ 13.8 V / Recommended 13.8 V (-18mV / °C)							
		Equalize Charge:13.8 ~ 14.1 V / Recommended 14.1 V (-24mV / °C)							
		Cycle Charge:14.4 ~ 15.0 V / Recommended 14.7 V (-30mV / °C)							
Self Discharge		3% of capacity declined per month at 25 °C							

Constant Current Discharge Characteristics - UNIT A (25°C, 77°F)

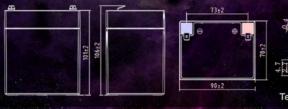
FV / TIME		10M	15M	30M	45M	1Н	1.5H	2H	ЗH	4H	5H	6H	8H		
	/ 21:0	15.1	11.8	6.67	4.59	3,49.	2.79	1.89	1.33	1.10	0.940	0.715	0.621	0.512	0.265
1.65 \	/ 19.1	13.9	11.0	-6.33	4.37	-3.32	2.67	1.81	1.29	1.07	0.921	0.706	0.610	0.505	0.260
1.70 \		13.4	10.7	6.18	4.28	3.25	2.62	1.78	1.27	1.01	0.910	0.692	0.600	0.494	0.254
1.75 \	/ 16.9	12.5	10.1 •	5.92	4.16	3.16	2.54	1.74	1.25	• 1.00	0.871	0.679	0.585	0.486	0.250
1.80 \	/ 15.5	11.7	9.62	5.66	3.98	3.03	2.46	1.69	1.18	0.979	0.835	0.665	0.571	0.475	0.240
- 1.85	/ 13.3	9.93	8.24	5.01	3.60	2.73	-2.25	1.61	1.11	0.950	0.798	. 0.644	0.527	0.456	0.235

Constant Power Discharge Characteristics - UNIT W/CELL (25°C, 77°F)

FV / TIME	5M	10M	15M	30M	45M	-1H	1.5H	2Н	зн	4H	SH	6Н	8H	10H	20H
1.60 V	37.9	27.3	21.6	12.4	8.63	6.56	5.29	3.54	2.51	2:08	1.77	1.36	1.17	0.989	0.525
1.65 V	34.7	25.5	20.4	11.9	8.25	6.30	5.10	3.42	2,45	2.02	1.74	1.34	1.15	0.971	0.510
1.70 V	33.6	24.7	20.0	11.6	8.09	6.20	5.02	3.33	2.41	1.92	1.69	1.31~	1.14	0.963	0.506
1.75 V	31.4	23.6	19.1	11.2	7.90	6.04	4.90	3.27	2.37	1.90	1.66	1.29	1.10	0.941	0.496
1.80 V	29.2	22.4	18.3	10.8	7.58	5.85	4.77	3.25	2.31	1.88	1.62	1.26	1.08	0.922	0.492
1.85 V	25.3	19.0	15.8	9.68	6.97	5.30	4.37	- 3.11	2.17	1.86	1.57	1.23	1.05	0.907	0.487

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information

Dimension: (L) 90 x (W) 70 x (H) 101 x (TH) 106 mm

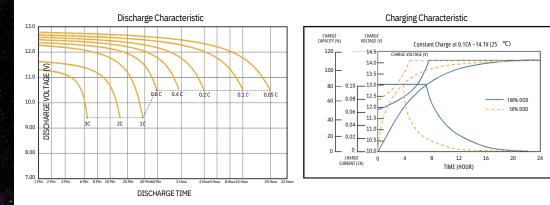


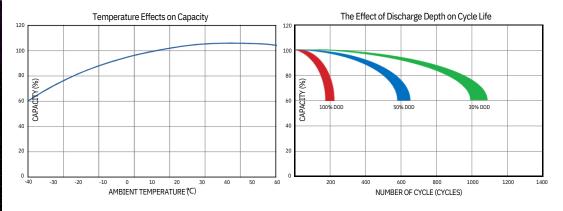


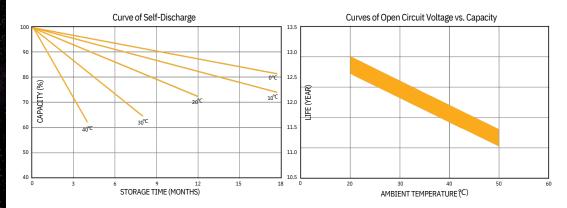


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PERFORMANCE CHARACTERISTICS







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