

EA-POWER-TS12-20 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		20 AH							
Design Life Years		5 Years							
Terminal		L1							
Approx. Weight	Kg	Approx. 5.50 kg (12.1 lbs)							
Container Material		ABS							
		20.0 AH (20 Hour Rate : 1.0 A to 10.5 V)							
Rated Capacity	АН	15.8 AH (3 Hour Rate : 5.26 A to 10.2 V)							
		13.2 AH (1 Hour Rate : 13.2 A to 9.6 V)							
Internal Resistance		Full charged at 25 °C: 16.3 mΩ							
Maximum Discharge Current	Α	300 A (5S)							
		Discharge: -20 ~ 50 °C (-4 ~ 122 °F)							
Operating Temperature	°C/‡	Charge: -20 ~ 50 °C (-4 ~ 122 °F)							
		Storage: -20 ~ 50 °C (-4 ~ 122 °F)							
		Charge Current: Maximum 5 A / Recommended 2 A)							
st 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		Float Charge: 13.5 ~ 13.8 V / Recommended 13.8 V (-18mV / °C)							
Charge Method (25 °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	5M	10M	15M	30M	45M	18	1.5H	2H	3H	4H	5H	6H	8H	10H	20H
1.60 V	79.2	51.8	38.6	25.3	16.2	13.2	8,05	7.56	5.52	4.42	3.76	2.85	2.48	1.98	1.06
1.65 V	78.6	49.6	35.4	24,0	15.2	12.4	7.97	7.26	5.36	4.28	3.68	2.83	2.44	1.96	1.04
1.70 V	64.4	46.6	33.0	23.3	14.7	12.0	.7.81	7.12	5.26	4.06	3.64	2.77	2.40	1.92	1,02
1.75 V	59.8	44.4	30.8	22.7	14.2	11.6	7.65	6.94	*5.18	4.00	3.48	2.71	2.34	1.88	1.00
1.80 V	55.0	41.8	28.6	22.0	13.7	11.2	7.48	6.76	4.90	3.92	3.34	2.65	2.28	1.84	0.96
- 1.85 V	49.1	38.7	25.4	20.2	12.7	.10.4	- 7.26	6.43	4.61	3.80	-3.19	2.57	2.19	1.78	0.94

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

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FV / TIME	5M	10M	15M	30M	45M	1H	1.5H	2H	3H	4H	SH	6H	8H	10H	20H
	149	93.3	70.7	42.7	29.0	24.2	16.2	14.2	10.4	8.37	7.10	5.63	4.68	3.84	2.10
1.65 V	137	88.3	66.3	42.4	27.4	22.8	15.9	13.6	10.1	8.10	6.97	5.51	4.61	3.76	2.04
1.70 V	125	85.7	63.3	42.3	26.5	22.1	15.7	13.4	10.0	7.70	6.77	5.47	4.56	3.73	2.03
1.75 V	114	83.0	61.0	41.9	25.7	21.4	15.4	13.1	9.83	7.60	6.63	5.35	4.38	3.65	1.98
1.80 V	102	80.3	58.3	41.6.	25.3	21.1	15.1	13.0	9.57	7.53	6.47	5.24	4.23	3.57	1.97
1.85 V	91.0	75.1	52.2	38.1	23.7	19.7		12.4	9.11	7.41	6.17	5.15	4.05	3.51	1.95
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Dimension: (L) 181 x (W) 76 x (H) 167 x (TH) 167 mm









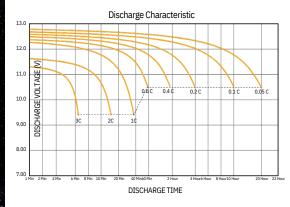


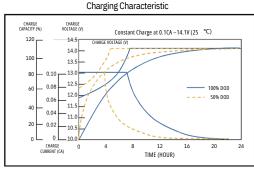


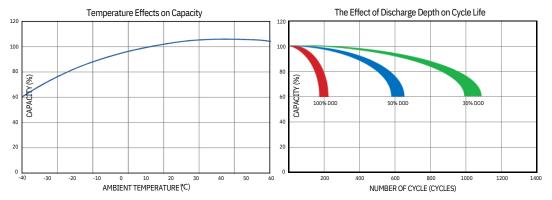


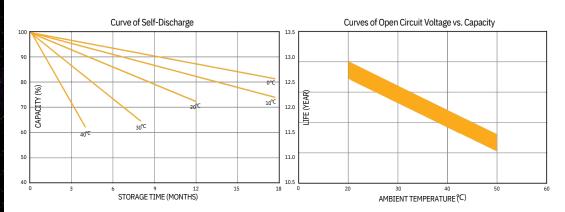


PERFORMANCE CHARACTERISTICS









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