

EA-POWER-TDG12-100 Lead-acid Solution

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



AGM GEL DEEP CYCLE 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	Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
2	Relatively rich electrolyte, high temperature and low temperature performance is superior
3	Long cycle life, excellent deep cycle discharge ability
4	Excellent charge acceptance ability
5	Precision sealing technology

Specification

ITEM		DETAIL				
Nominal Voltage	٧	12 V				
Nominal Capacity	AH	100 AH				
Design Life	Years	12 Years				
Terminal		M8				
Approx. Weight	Kg	Approx. 29.5 kg (65.1 lbs)				
Container Material		ABS 100.0 AH (10 Hour Rate : 10.0 A to 10.8 V) 78.9 AH (3 Hour Rate : 26.3 A to 10.8 V) 64.2 AH (1 Hour Rate : 64.2 A to 10.5 V) Full charged at 25 °C: 5.2 mΩ				
	АН	100.0 AH (10 Hour Rate : 10.0 A to 10.8 V)				
Rated Capacity		78.9 AH (3 Hour Rate : 26.3 A to 10.8 V)				
		64.2 AH (1 Hour Rate : 64.2 A to 10.5 V)				
Internal Resistance		Full charged at 25 °C: 5.2 mΩ				
Maximum Discharge Current	A	1200 A (5S)				
		Discharge: -40 ~ 60 °C (-40 ~ 140 °F)				
Operating Temperature	°C / °F	Charge: -20 ~ 50 °C (-4 ~ 122 °F)				
		Storage: -20 ~ 50 °C (-4 ~ 122 °F)				
		Charge Current: Maximum 25.0 A / Recommended 10.0 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 $^{\circ}\mathrm{C}$				

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

FV/TIME	5M	30M	1H	2H	3H	5H	8H	10H	20H
1.60 V	184	112	66.0	37,8	27.5	18.4	12.1	10.3	5.43
1.65 V	178	110	65.6.	37.6	27.2	18.2	12.0	10.2	5.40
1.70 V	174	108	* 65.1	37.4	26.8	18.1	11.9	10.1	5.37
1.75 V	169	107	64.2	36,8	26.5	17.9	11.8	10.0	5.35
1.80 V	157	- 102	62.5	36.1	26.3	17.4	11.7	10.0	5.32
1.85 V	140	93:3	57.9	-34.3	24.8	16.5	. 11.2	9.65	5.23

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

FV/TIME	5M	10M	15M	30M	5H	6H	8H	10H	20H
1.60 V	323	202	125	71.5	52.2	35.0	23.5	19.9	10.7
1.65 V	318	200	124	71.4	. 51.6	34.8	23.3	19.7	10.7
1.70 V	314	200	123	71.1	51,3	34.5	23.2	19.5	10.6
1.75 V	312	199	- 122	70.7	51.0	34.3	23.0	19.3	10.6
1.80 V	295	194	121		50.8	33.9	22.9	19.1	10.5
1.85 V	264	178.	112	67.3	48.3	32.4	22.1	18.8	10.4

Dimension: (L) 330 x (W) 171 x (H) 216 x (TH) 219 mm

















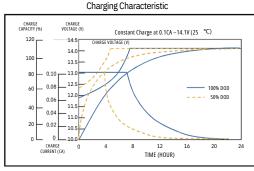


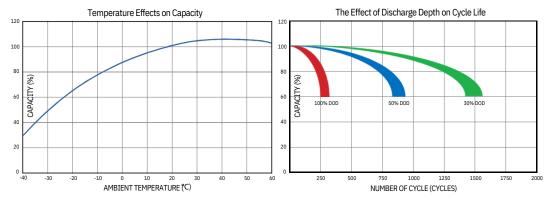


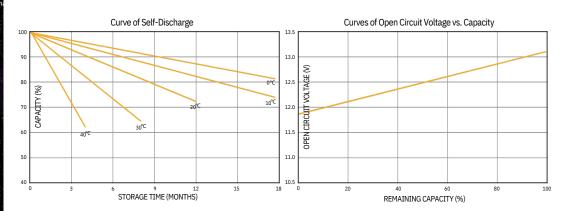


PERFORMANCE CHARACTERISTICS









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