

GTAD12-75 12V-75AH

DC SERIES-Deep Cycle Battery



Applications

- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System(EPS)
- ◆ Emergency backup Power Supply
- ◆ Alarm and security system
- ◆ Electronic Apparatus and equipment
- ◆ Communication Power Supply
- ◆ Solar Power System

Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	75AH	
Dimension	Length	260±2mm
	Width	169±2mm
	Container Height	210±2mm
	Total Height (with Terminal)	214±mm
Approx Weight	Approx 20.7Kg	
Terminal	T6	
Container Material	ABS	
Rated Capacity	77.2AH/3.86A	(20hr ,1.80V/cell,25°C/77°F)
	75AH/7.5A	(10hr,1.75V/cell,25°C/77°F)
	66.75AH/13.35A	(5hr,1.75V/cell,25°C/77°F)
	58.5AH/19.5A	(3hr,1.75V/cell,25°C/77°F)
	45H/45A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 4.9 mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temp. Range	25 ±3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current less than 22.5A/voltage 14.6V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.6V~13.7V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104 °F)	103%
	25°C (77 °F)	100%
	0°C (32 °F)	86%
Self Discharge	GLOBAL POWER series batteries may be stored for up to 6 months at 25 °C(77°F) and battery should be recharged before use. For higher temperatures the time interval will be shorter.	

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.85V/cell	102.66	70.67	42.72	30.74	26.91	19.22	13.24	9.15	7.26	3.64
1.80V/cell	108.29	72.67	43.37	30.43	26.77	19.40	13.31	9.27	7.38	3.86
1.75V/cell	112.93	74.33	43.70	32.58	26.71	19.50	13.35	9.35	7.50	3.90
1.70V/cell	117.90	75.67	44.35	32.15	27.38	19.62	13.42	9.38	7.56	3.96
1.65V/cell	120.88	76.33	44.67	31.92	27.62	19.67	13.48	9.48	7.66	4.07
1.60V/cell	127.50	78.00	45.00	31.57	27.76	19.78	13.52	9.56	7.78	4.29

Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.85V/cell	229.67	151.39	83.79	61.38	53.84	38.35	26.17	17.85	14.53	8.18
1.80V/cell	217.91	148.23	83.19	60.78	53.62	38.22	26.08	17.73	14.34	7.19
1.75V/cell	212.70	146.94	85.68	60.75	53.51	38.13	26.04	17.56	14.16	7.85
1.70V/cell	203.95	144.46	81.67	60.02	53.16	37.91	25.95	17.53	14.05	7.47
1.65V/cell	195.88	141.28	81.16	59.74	53.84	37.73	25.89	17.39	13.84	7.23
1.60V/cell	185.89	137.49	80.06	59.22	52.39	37.43	25.77	17.18	13.62	6.99

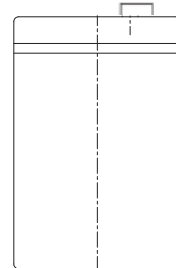
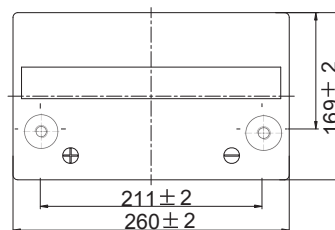
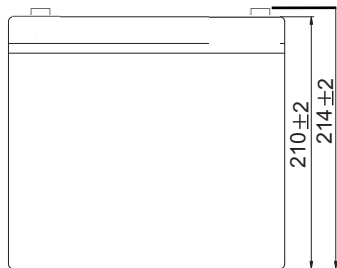
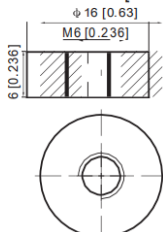
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

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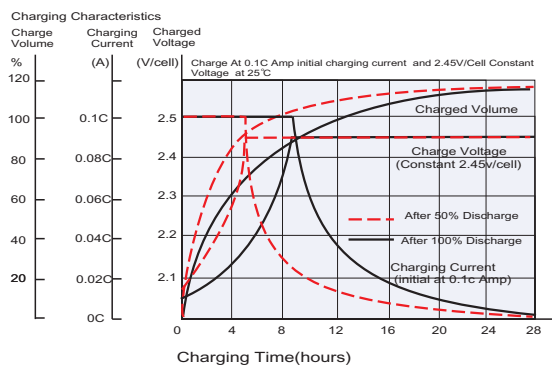
Dimensions

T6 Terminal

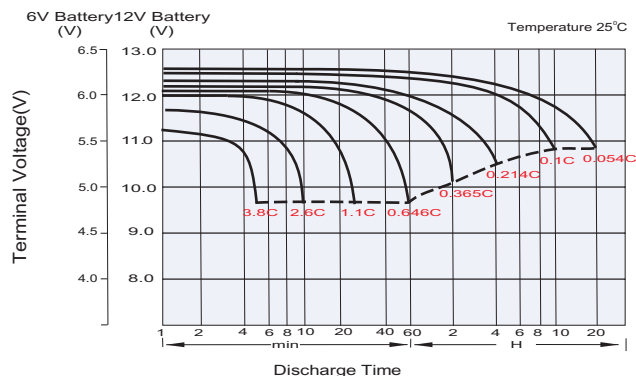
Unit: mm [inches]



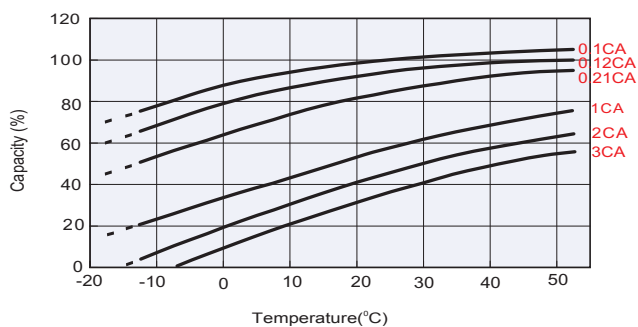
Charging Characteristics (cycle use)



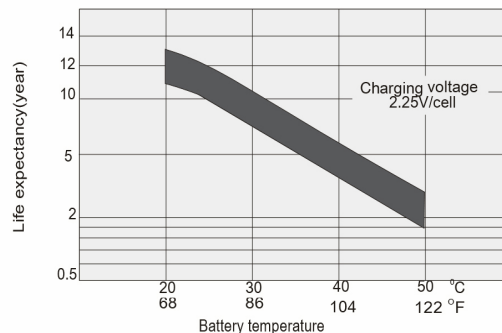
Discharge Characteristics



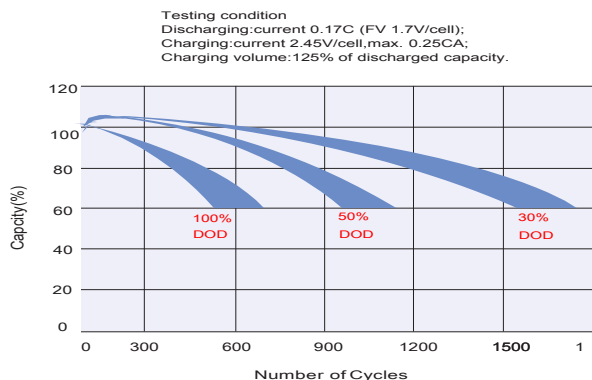
Temperature Effects in Relation to Battery Capacity



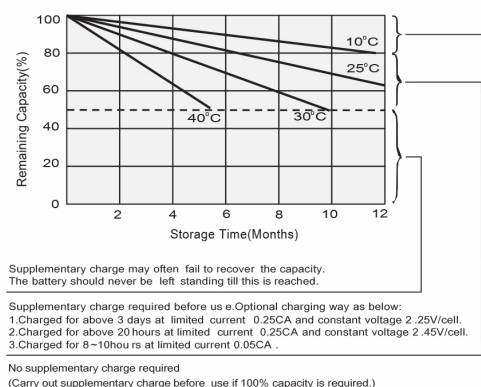
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



GLOBAL POWER BATTERIES

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