

GTAD 12-40 12V-40AH

DC SERIES-Deep Cycle Battery



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	40AH	
Dimension	Length	196 ± 2mm
	Width	165 ± 2mm
	Container Height	173 ± 2mm
	Total Height (with Terminal)	173± 2mm
Approx Weight	Approx 11.6Kg	
Terminal	T6	
Container Mater ial	ABS	
Rated Capacity	42AH/2.10A	(20hr , 1.75V/cell,25°C/77°F)
	40 AH/4.00A	(10hr, 1.75V/cell,25°C/77°F)
	33.4AH/6.67A	(5hr, 1.75V/cell,25°C/77°F)
	30.3AH/10.1A	(3hr, 1.75V/cell,25°C/77°F)
	24.5 AH/24.5A	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	456A (5s)	
Internal Resistance	Approx 9.0 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 12 A.Voltage	
	14.6V~15.0Vat 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 DC series batteries may be stored for up to 6months at 25°C(77°F)and battery should be recharge before use. For higher temperatures the time interval will be shorter.	

Applications

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

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.6	46.8	40.9	29.4	23.4	19.0	11.8	9.19	7.44	6.05	5.28	4.31	3.59	1.85
1.80V/cell	71.1	56.6	48.4	34.7	27.2	21.3	12.9	9.89	7.95	6.49	5.66	4.57	3.80	1.95
1.75V/cell	78.1	61.8	52.0	36.1	28.2	22.2	13.3	10.1	8.12	6.67	5.81	4.65	4.00	2.10
1.70V/cell	85.1	66.0	54.7	37.5	29.3	22.9	13.9	10.4	8.34	6.83	5.94	4.71	4.23	2.23
1.65V/cell	91.9	70.1	58.1	39.6	30.1	23.7	14.3	10.8	8.63	7.02	6.06	4.79	4.35	2.42
1.60V/cell	99.8	75.0	61.9	41.8	31.4	24.5	14.7	11.1	8.90	7.25	6.20	4.83	4.56	2.51

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	103.8	88.3	78.0	56.6	45.2	36.8	23.0	18.0	14.6	11.9	10.42	8.52	7.11	4.04
1.80V/cell	130.9	105.1	90.8	65.9	52.2	41.0	24.9	19.2	15.5	12.7	11.14	9.02	7.52	4.07
1.75V/cell	142.0	113.6	96.8	68.1	53.9	42.7	25.8	19.5	15.8	13.0	11.43	9.17	7.59	4.10
1.70V/cell	152.6	120.4	101.2	70.6	55.9	44.0	26.7	20.0	16.2	13.3	11.65	9.29	7.66	4.18
1.65V/cell	163.6	127.2	107.0	74.2	57.1	45.3	27.4	20.8	16.7	13.7	11.89	9.43	7.81	4.22
1.60V/cell	174.6	134.4	112.8	77.5	58.9	46.5	28.1	21.4	17.2	14.1	12.12	9.51	7.89	4.24

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

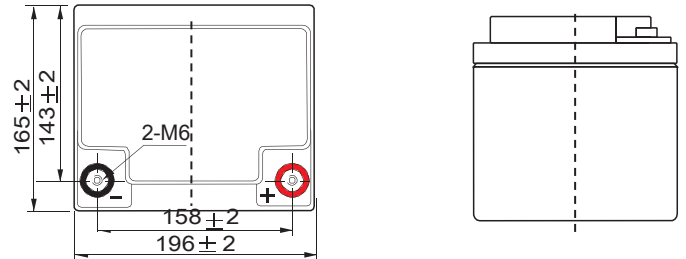
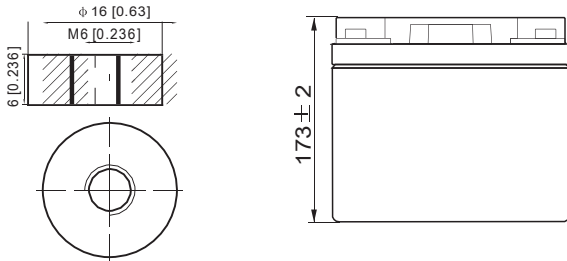
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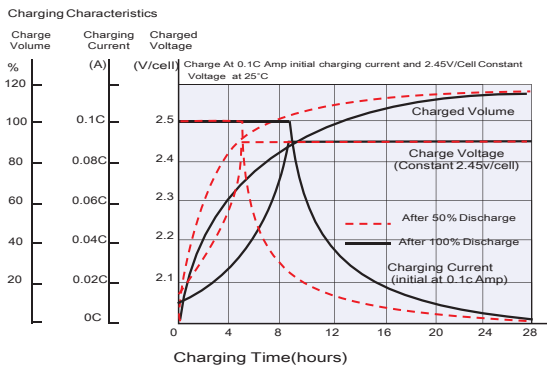
Dimensions

T6 Terminal

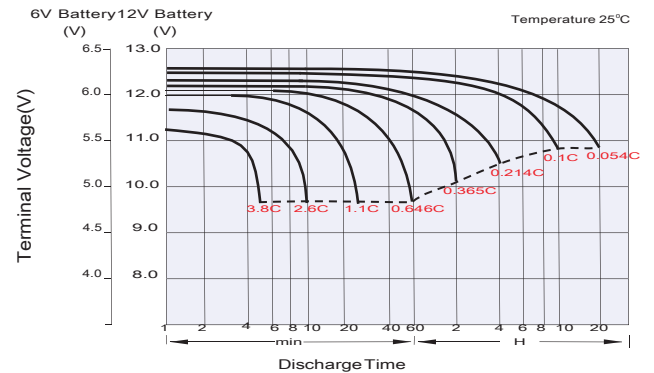
Unit: mm [inches]



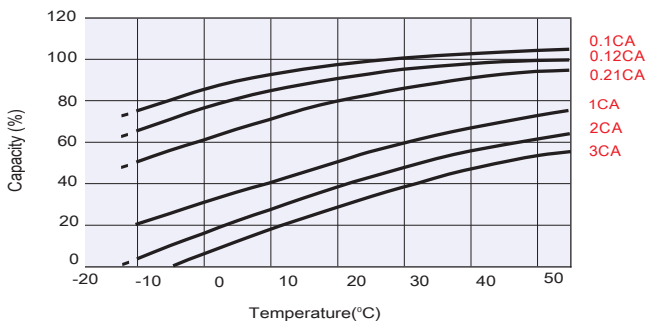
Charging Characteristics (cycle use)



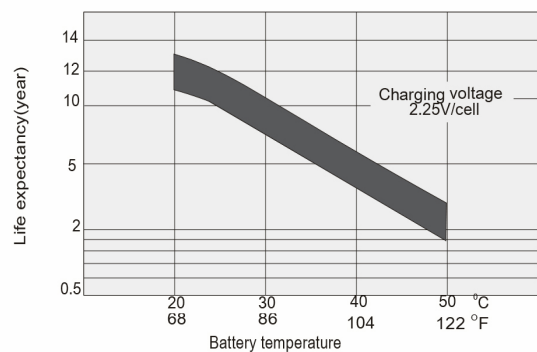
Discharge Characteristics



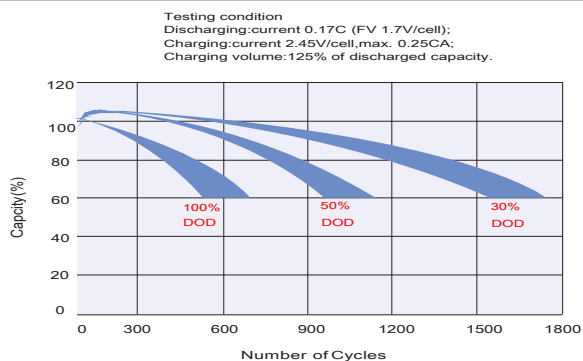
Temperature Effects in Relation to Battery Capacity



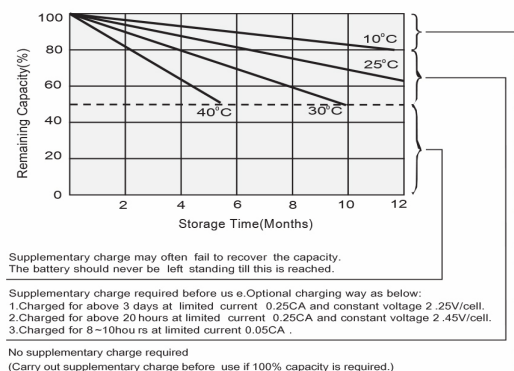
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



GLOBAL POWER BATTERIES

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