



Specifications

Nominal Voltage	12V	
Nominal Capacity (10HR)	75Ah	
Dimensions	Length	260±2mm
	Width	169±2mm
	Height	210±2mm
	Total height	214±2mm
Approx. Weight	20.7kg	
Terminal Type	T6	
Container Material	ABS	
	20HR (1.80V)	75.4Ah
Rated Capacity (25°C)	10HR (1.75V)	75Ah
	5HR (1.75V)	66.75Ah
	3HR (1.75V)	58.5Ah
	1HR (1.60V)	45Ah
	Max. Discharge Current	1200A (5 sec.)
Internal Resistance (Fully charged, 25°C)	Approx. 4.9mΩ	
Operating Temp. Range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-15°C~40°C (5°F~104°F)
Nominal Operating Temp.	25°C±3°C (77°F±5°F)	
Cyclic Charging Voltage (25°C)	Initial Charging Current less than 22.5 A. Voltage 14.6V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
	No limit on Initial Charging Current Voltage 13.6V~13.7V at 25°C (77°F) Temp. Coefficient -20mV/°C	
Float Charging Voltage (25°C)	40°C (104°F) 103%	
Capacity affected by temperature	25°C (77°F)	100%
	0°C (32°F)	86%
	Self-discharge (25°C)	Global Power DC 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.

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

Remarks:

- Use in normal climate environment with standard range of regulated powered electricity.
- Falling, hitting, bending, etc. may cause degradation of battery characteristics.

Constant current discharge characteristics unit: Ampere/Block (at 25°C, 77°F)

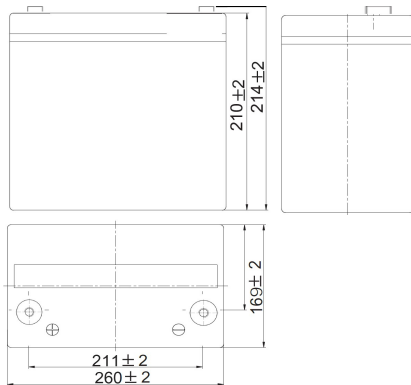
F.V/Time	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.60V/cell	127.50	78.00	45.00	32.93	27.76	19.78	13.50	9.56	7.78	4.29
1.67V/cell	120.88	76.33	44.67	32.61	27.62	19.67	13.42	9.48	7.66	4.07
1.70V/cell	117.90	75.67	44.35	32.58	27.56	19.62	13.42	9.38	7.56	3.96
1.75V/cell	112.93	74.33	43.70	32.15	27.38	19.50	13.35	9.35	7.50	3.90
1.80V/cell	108.29	72.67	43.37	31.92	27.21	19.40	13.31	9.27	7.38	3.77
1.85V/cell	102.66	70.67	42.72	31.57	26.97	19.22	13.24	9.15	7.26	3.64

Constant power discharge characteristics unit: Watt/Block (at 25°C, 77°F)

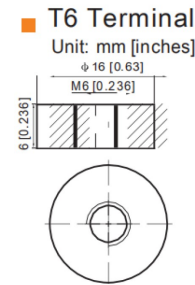
F.V/Time	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.60V/cell	246.08	155.38	89.78	65.76	55.55	39.57	27.00	19.12	15.57	8.57
1.67V/cell	233.47	152.13	89.13	65.13	55.32	39.43	26.90	19.00	15.36	8.16
1.70V/cell	227.89	150.81	88.59	65.09	55.20	39.34	26.90	18.82	15.17	7.95
1.75V/cell	218.52	148.26	87.50	64.30	54.85	39.12	26.78	18.78	15.06	7.83
1.80V/cell	209.87	145.00	86.96	64.01	54.51	38.93	26.71	18.63	14.82	7.58
1.85V/cell	199.16	141.11	85.78	63.45	54.05	38.62	26.59	18.41	14.60	7.33

Note 1: Above characteristics data can be obtained within three charge and discharge cycles.

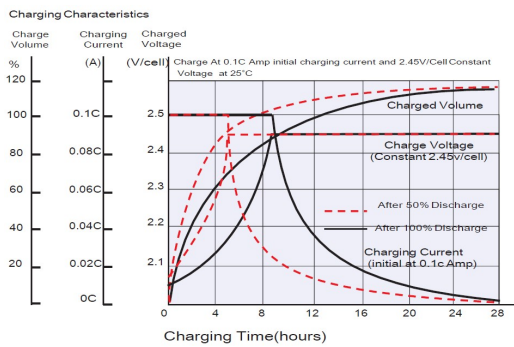
Outer dimensions (mm)



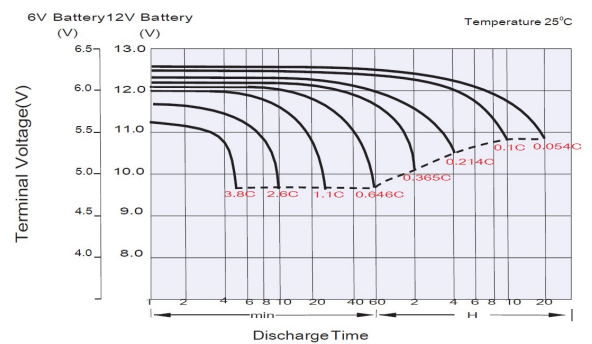
Terminal type (mm)



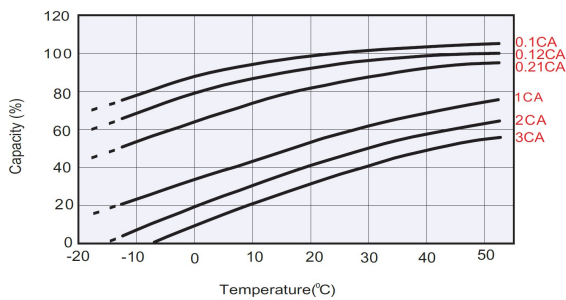
Charging Characteristics (cycle use)



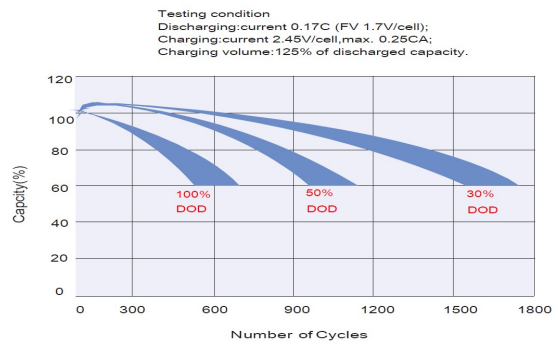
Discharge Characteristics



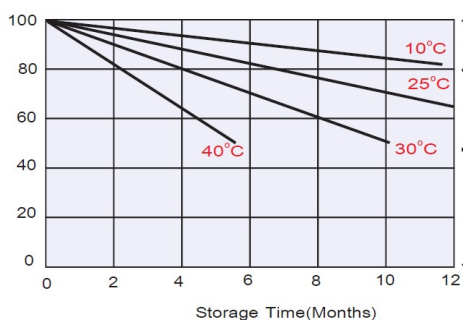
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8~10 hours at limited current 0.05CA.

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.