

Specification

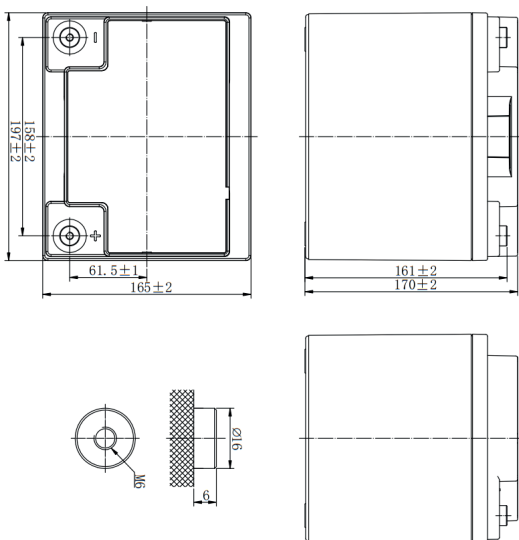
Article number:460-6107

Nominal Voltage	12V		
Nominal Capacity(10HR)	45Ah		
Dimensions	Length	197mm	(7.76 inches)
	Width	165mm	(6.50 inches)
	Container Height	170mm	(6.69 inches)
	Total Height (with Terminal)	170mm	(6.69 inches)
Approx Weight	Approx 14.2 kg (31.3 lbs)		
Terminal	M6		
Container Material	ABS		
Rated Capacity	46.8Ah	/	2.34A (20hr,10.8V,25°C/77°F)
	45Ah	/	4.50A (10hr,10.8V,25°C/77°F)
	40.6Ah	/	8.11A (5hr,10.5V,25°C/77°F)
	28.4Ah	/	28.4A (1hr,9.6V,25°C/77°F)
Max. Discharge Current	450A (5s)(25°C/77°F)		
Internal Resistance	Fully charged battery(25°C/77°F)Approx 10mΩ		
Operating Temp.Range	Discharge	: -15~50°C (5~122°F)	
	Charge	: -20~40°C (-4~104°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 13.5A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C		
	Initial Charging Current less than 13.5A.Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20V/°C		
Standby Use	CT series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time intervall will be shorter.		
Self Discharge			

Dimensions

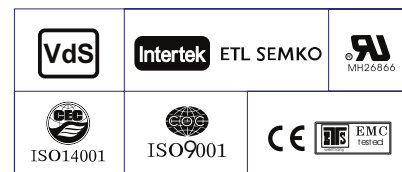
M6 Terminal

Unit: mm



Applications

- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system Electronic
- ◆ apparatus and equipment Communication
- ◆ power supply
- ◆ DC power supply
- ◆ Auto control system



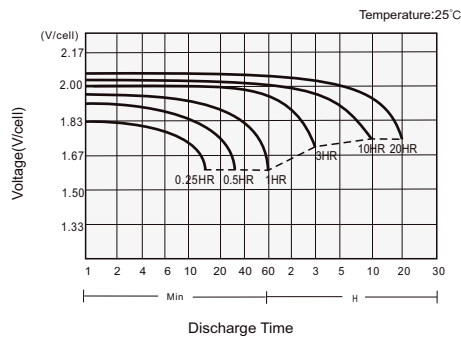
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	101.3	88.7	75.9	46.9	28.4	12.8	8.53	4.66	2.44
1.67V/cell	97.8	85.8	73.6	46.2	28.0	12.7	8.41	4.60	2.42
1.70V/cell	94.4	83.1	71.6	45.5	27.6	12.5	8.24	4.54	2.39
1.75V/cell	88.4	78.0	67.4	44.6	27.1	12.3	8.11	4.52	2.36
1.80V/cell	81.4	71.9	62.2	43.7	25.8	12.1	7.97	4.50	2.34

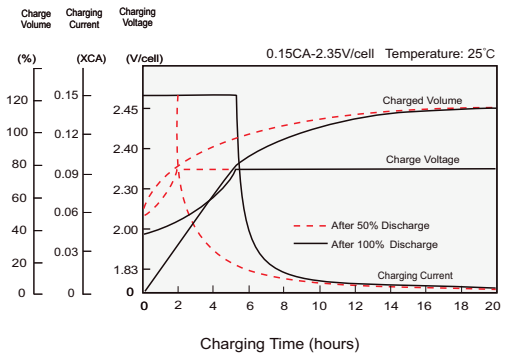
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V/cell	171.8	154.1	134.5	106.2	69.7	53.4	32.9	24.5	16.5
1.67V/cell	169.5	152.0	132.6	104.8	69.3	53.0	32.6	24.4	16.3
1.70V/cell	166.8	149.6	130.5	103.1	68.8	52.6	32.3	24.2	16.1
1.75V/cell	158.6	142.3	124.1	98.1	67.9	51.8	31.8	23.9	15.8
1.80V/cell	148.4	133.3	116.3	91.9	66.3	49.6	30.3	23.5	15.6

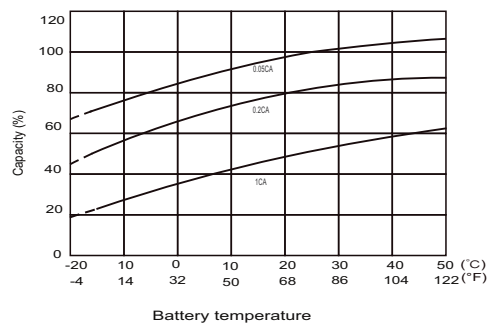
Discharge Characteristics



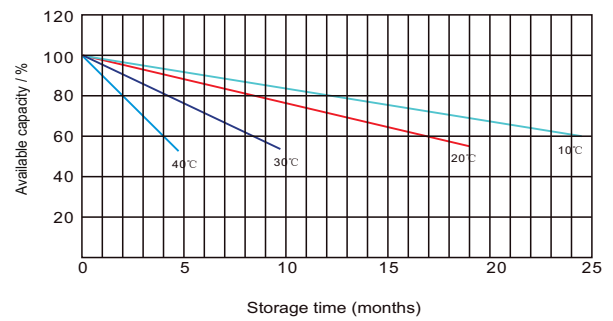
Charging Characteristics



Effects of Temperature on Capacity

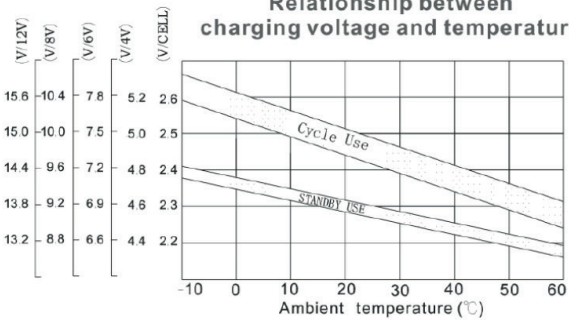


Self Discharge Characteristics

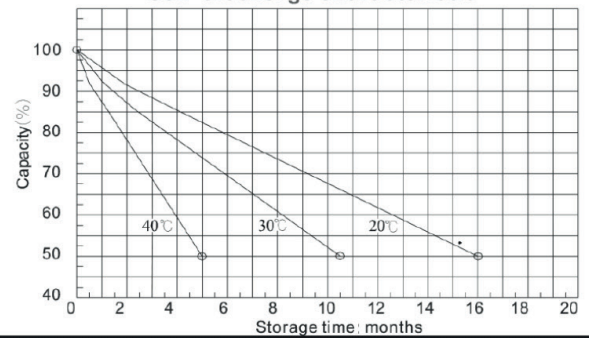


General diagrams

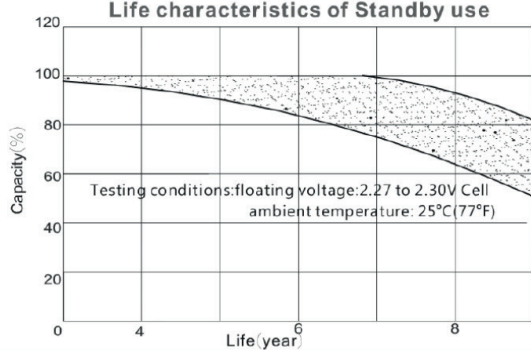
Relationship between charging voltage and temperature



Self-discharge characteristic



Life characteristics of Standby use



Cycle service life in relation to depth of discharge

