

Specification

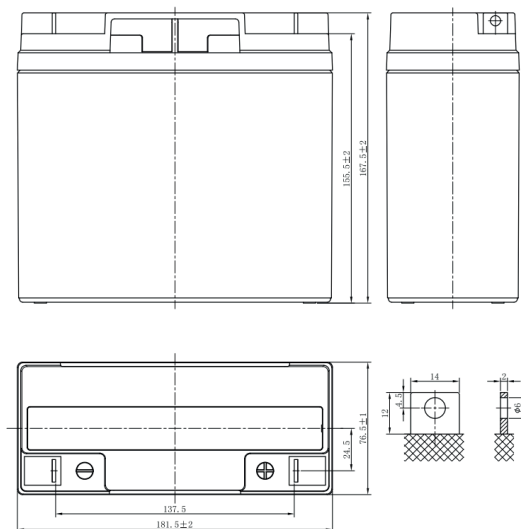
Article number:460-6090

Nominal Voltage	12V		
Nominal Capacity(20HR)	18Ah		
Dimensions	Length	181.5mm	(7.14
	Width	inches) 76.5mm	(3.01
	Container Height	inches) 167.5mm	(6.59
	Total Height (with Terminal)	inches) 167.5mm	(6.59
Approx Weight	Approx 5.35 kg (11.8 lbs)	inches)	
Terminal	T3		
Container Material	ABS		
Rated Capacity	18Ah	/	0.900A (20hr,10.5V,25°C/77°F)
	17.0Ah	/	1.70A (10hr,10.5V,25°C/77°F)
	15.5Ah	/	3.10A (5hr,10.5V,25°C/77°F)
	11.8Ah	/	11.8A (1hr,9.6V,25°C/77°F)
Max. Discharge Current	270A (5s)(25°C/77°F)		
Internal Resistance	Fully charged battery(25°C/77°F)Approx 16mΩ		
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 5.4A.Voltage		
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C		
Standby Use	Initial Charging Current less than 5.4A.Voltage		
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20V/°C		
Self Discharge	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.		

Dimensions

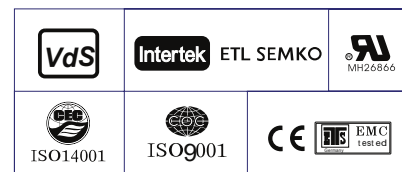
T3 Terminal

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



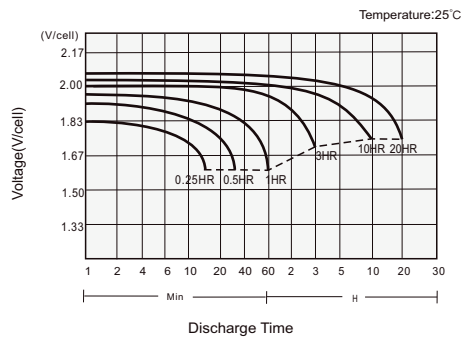
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	71.3	46.1	34.7	20.3	11.8	4.79	3.22	1.75	0.924
1.67V/cell	67.2	44.2	33.5	19.7	11.6	4.70	3.17	1.73	0.914
1.70V/cell	64.9	43.0	32.7	19.4	11.4	4.66	3.14	1.72	0.907
1.75V/cell	62.0	41.4	31.7	18.9	11.2	4.59	3.10	1.70	0.900
1.80V/cell	58.9	39.8	30.6	18.4	11.0	4.52	3.06	1.69	0.890

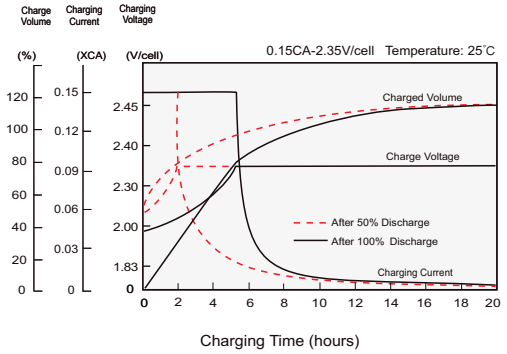
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V/cell	127.2	84.4	64.5	38.4	27.8	22.6	12.9	9.32	6.30
1.67V/cell	122.3	82.0	62.8	37.5	27.3	22.2	12.7	9.18	6.22
1.70V/cell	119.2	80.2	61.5	37.0	26.9	21.9	12.6	9.10	6.17
1.75V/cell	114.9	77.6	59.9	36.2	26.4	21.6	12.4	8.98	6.10
1.80V/cell	110.3	75.2	58.3	35.5	25.9	21.3	12.3	8.87	6.03

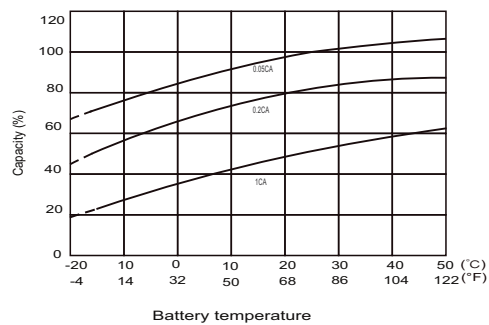
Discharge Characteristics



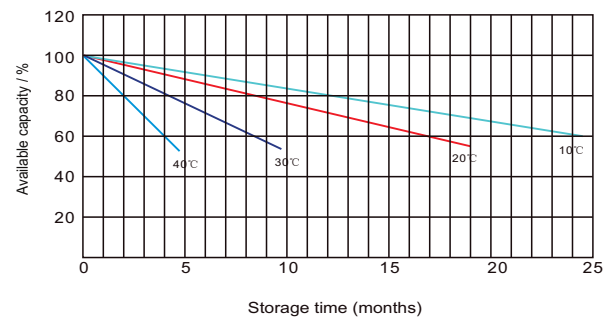
Charging Characteristics



Effects of Temperature on Capacity

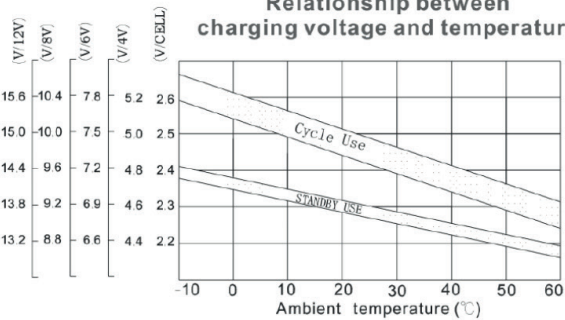


Self Discharge Characteristics

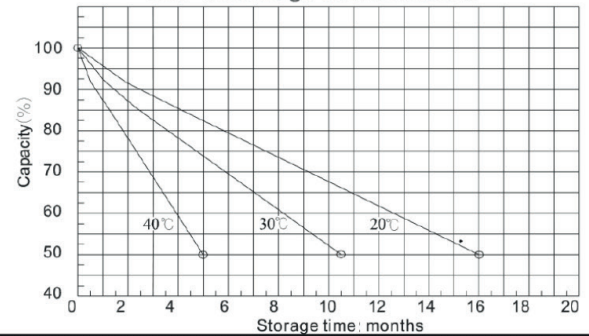


General diagrams

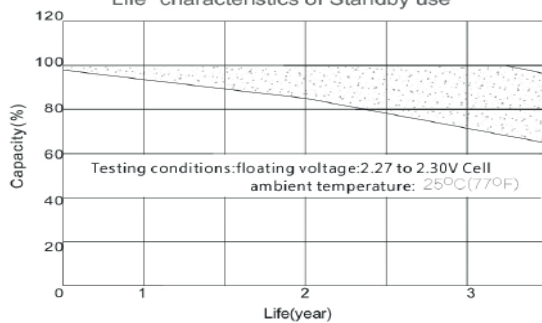
Relationship between charging voltage and temperature



Self-discharge characteristic



Life characteristics of Standby use



Cycle service life in relation to depth of discharge

