Leader-High performance

CTH24-12 (12V24AH)

Specification

Article number:460-6315

Nominal Voltage	12V		
Nominal Capacity(20HR)	24Ah		
Dimensions	Length	166mm	(6.54 inches)
	Width	175mm	(6.89 inches)
	Container Height	125mm	(4.92 inches)
	Total Height (with Terminal)	125mm	(4.92 inches)
Approx Weight	Approx 7.8 kg (17.20 lbs)		
Terminal	M5		
Container Material	ABS		
Rated Capacity	24Ah / 1.20A		(20hr,10.5V,25°C/77°F)
	23.8Ah / 2.38A		(10hr,10.5V,25°C/77°F)
	22.15Ah / 4.43A		(5hr,10.5V,25°C/77°F)
	16.1Ah / 16.1A		(1hr,9.6V,25°C/77°F)
Max. Discharge Current	360A (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	360A (5s) **(25°C/77°F)**		
Cycle Use	Initial Charging Current less than 7.2A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C		
Standby Use	Initial Charging Current less than 7.2A.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.		

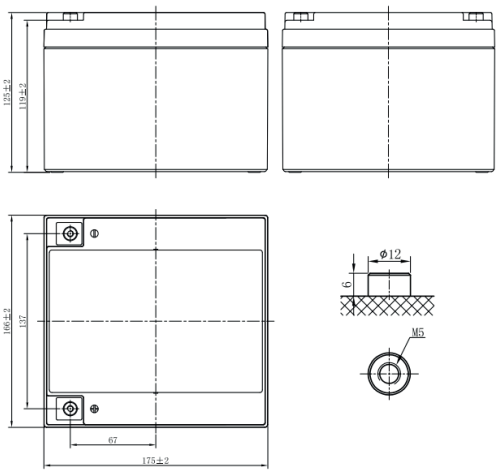
Applications

- *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*

Dimensions

M5 Terminal

Unit: mm



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

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	....	57.6	44.4	26.7	16.1	6.81	4.61	2.46	1.24
1.67V/cell	....	54.4	42.5	25.9	15.7	6.67	4.53	2.43	1.22
1.70V/cell	....	52.9	41.6	25.5	15.6	6.62	4.49	2.41	1.21
1.75V/cell	....	50.6	40.2	25.0	15.3	6.52	4.43	2.38	1.20
1.80V/cell	....	48.2	38.8	24.4	15.0	6.43	4.38	2.35	1.19

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	....	107.2	83.2	50.5	37.8	30.8	17.6	13.2	9.02
1.67V/cell	....	101.9	80.1	49.3	37.0	30.2	17.4	13.0	8.89
1.70V/cell	....	99.6	78.7	48.7	36.7	30.0	17.2	12.9	8.83
1.75V/cell	....	95.7	76.4	47.8	36.1	29.6	17.0	12.8	8.73
1.80V/cell	....	91.7	74.1	46.9	35.6	29.1	16.8	12.6	8.63

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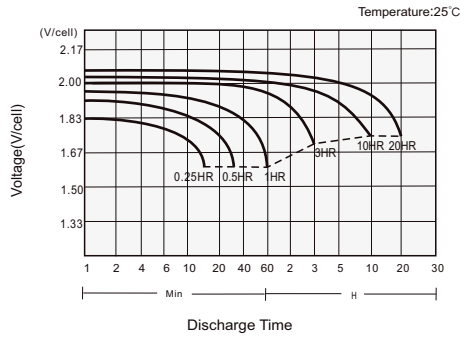
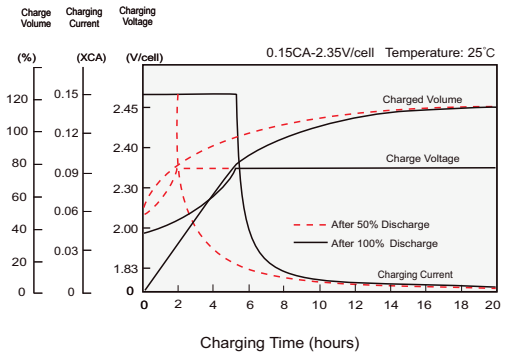
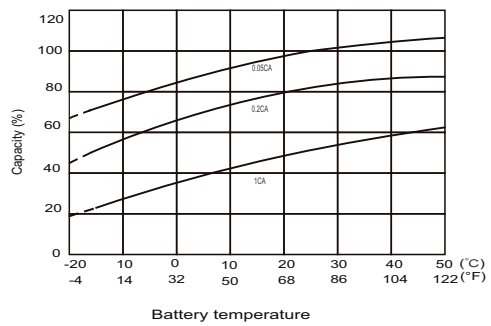
Discharge Characteristics



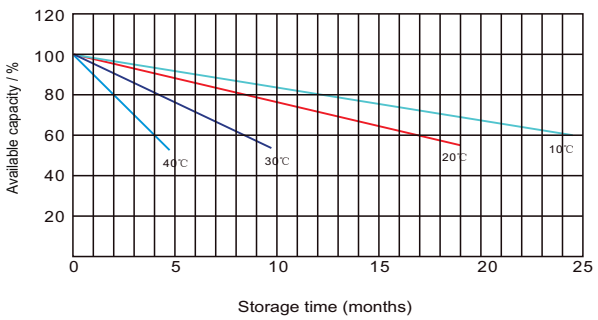
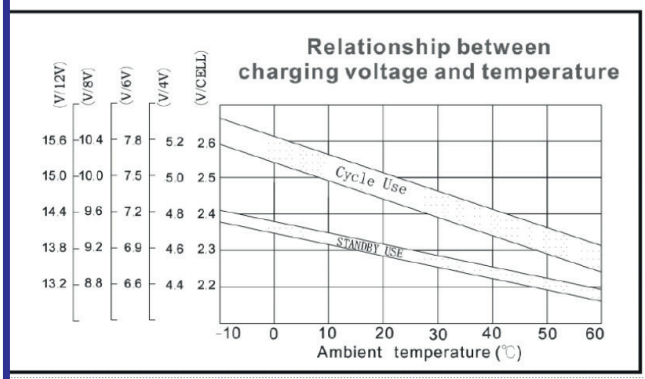
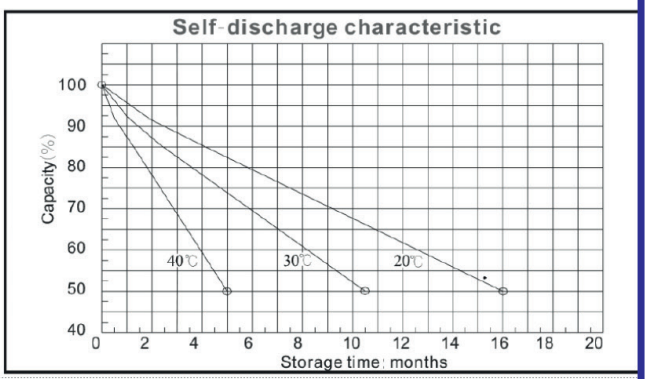
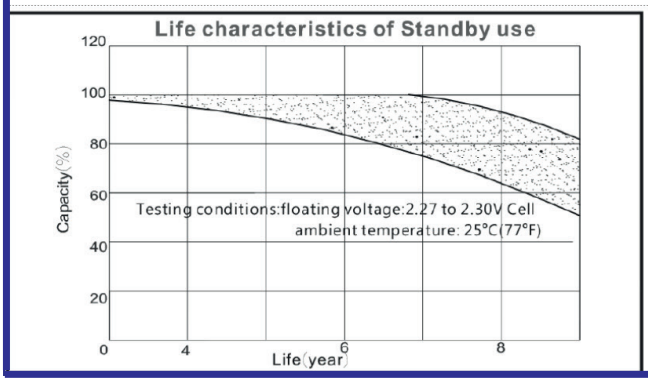
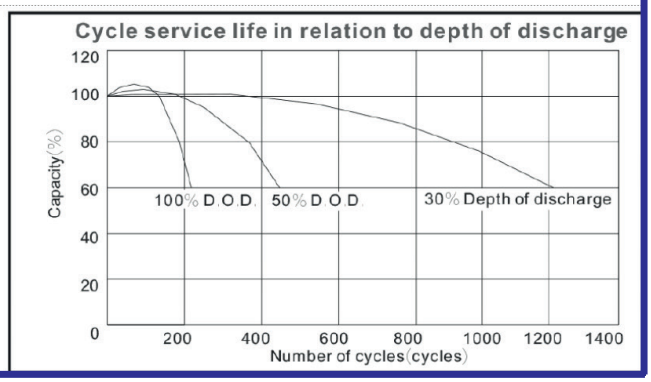
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



General diagrams