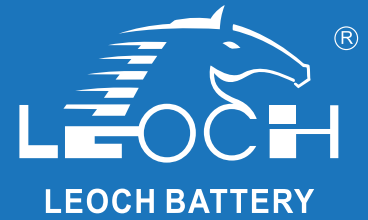




TC Series

TC12-105(12V105Ah)

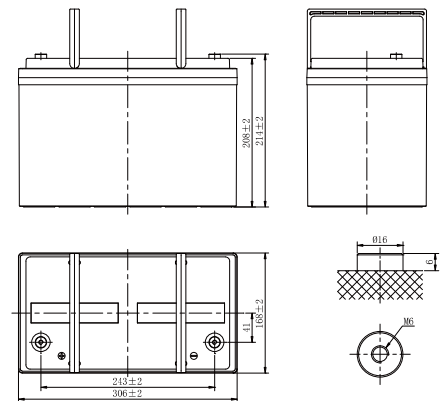


Specifications

Rated Voltage	12V	
Nominal Capacity	105Ah	(C ₂₀ , 1.80V/cell)
Dimension	Length	306±2mm (12.0 inches)
	Width	168±2mm (6.61 inches)
	Container Height	208±2mm (8.19 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	29.3 Kg (64.6lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity (25°C)	105.0 Ah	(20hr, 5.25A, 1.80V/cell)
	95.0 Ah	(10hr, 9.50A, 1.80V/cell)
	86.0 Ah	(5hr, 17.2A, 1.75V/cell)
	75.9Ah	(3hr, 25.3A, 1.75V/cell)
	61.8Ah	(1hr, 61.8A, 1.60V/cell)
Max. Discharge Current	950A (5s)	
Internal Resistance (25°C)	Approx 5.30mΩ	
Operating Temp. Range	Discharge : -20 ~ 55°C (-4 ~ 131°F)	
	Charge : 0 ~ 40°C (32 ~ 104°F)	
	Storage : -20 ~ 50°C (-4 ~ 122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 23,7A. Voltage 14.4V~14.8V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 23,7A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	TC 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 interval will be shorter.	



Layout



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

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	47.5	29.6	22.3	18.1	15.9	13.7	11.0	9.30	5.01
1.80V/cell	52.3	32.4	24.5	19.6	16.7	14.5	11.5	9.50	5.25
1.75V/cell	58.0	34.2	25.3	20.1	17.2	15.0	11.6	9.80	5.34
1.67V/cell	59.9	36.1	26.0	20.5	17.4	15.2	11.8	9.90	5.40
1.60V/cell	61.8	36.7	26.3	20.9	17.6	15.4	11.9	10.0	5.44

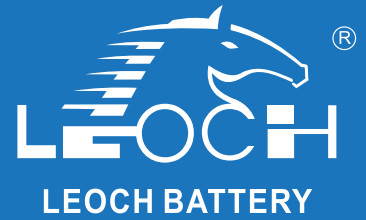
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	92.3	57.8	43.8	35.5	31.2	27.0	21.7	18.4	10.0
1.80V/cell	100.9	63.0	47.9	38.4	32.8	28.5	22.6	18.8	10.4
1.75V/cell	111.1	66.1	49.3	39.2	33.6	29.3	22.9	19.3	10.6
1.65V/cell	113.4	69.2	50.1	39.8	33.8	29.7	23.2	19.5	10.7
1.60V/cell	115.9	69.8	50.4	40.3	34.1	30.0	23.4	19.7	10.8



TC Series

TC12-105(12V105Ah)



Applications

- Caravan/RV
- Marine

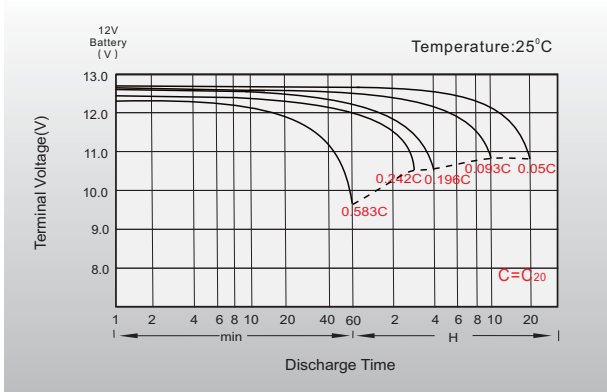
General Features

- Special plate design, long cycle life
≥550 Cycles @ 60% DOD
- Operation temperature -20~55°C
- ≤3% Self discharge per month
- Excellent deep discharge resilience performance

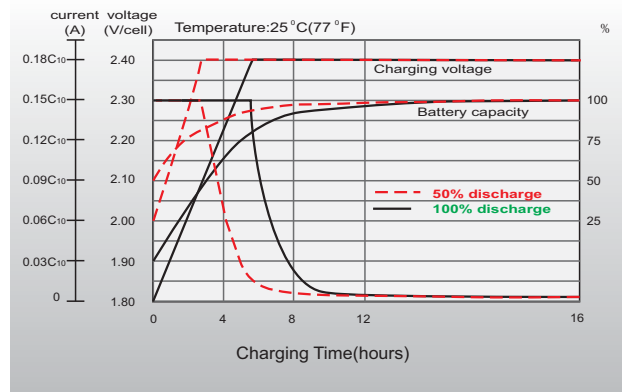
Standards

- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

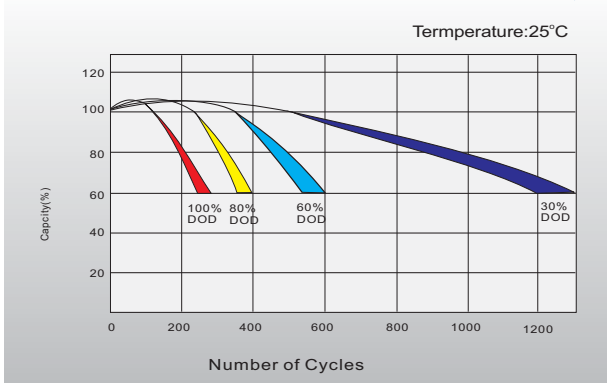
Discharge Characteristics



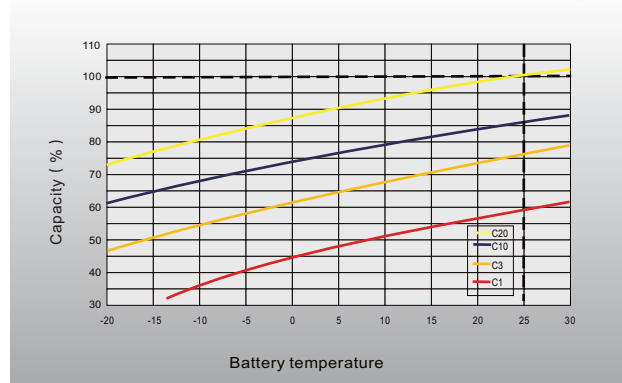
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



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Publication No.:LB-TC12-105-PD-EN-V1.3-2020.08