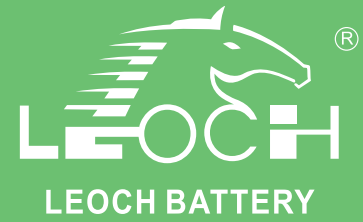




# PLC-Pure Lead Long Cycle Life PLC 150FT (12V135Ah)

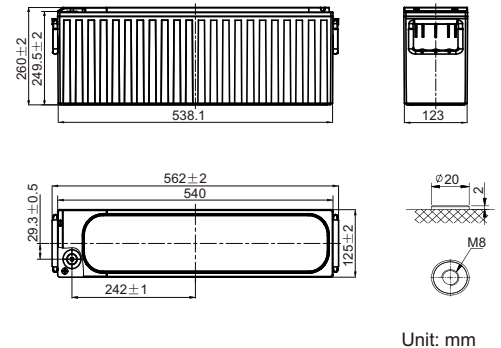


## Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	135Ah
	C <sub>20</sub> , 1.80V/cell	140Ah
Dimension	Length	562±2mm (22.1 inches)
	Width	125±2mm (4.92 inches)
	Container Height	260±2mm (10.2 inches)
	Total Height	260±2mm (10.2 inches)
Approx. Weight	46.1 Kg (101.7 lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	140.0 Ah	(20hr, 7.00A, 1.80V/cell)
	135.0 Ah	(10hr, 13.5A, 1.80V/cell)
	124.0 Ah	(5hr, 24.8A, 1.75V/cell)
	114.3 Ah	(3hr, 38.1A, 1.75V/cell)
	96.1 Ah	(1hr, 96.1A, 1.60V/cell)
Max. Discharge Current	1400A	
Internal Resistance (25°C)	Approx. 3.6mΩ(Fully charged)	
Operating Temp. Range	Discharge	-40 ~ 65°C (-40 ~ 149°F)
	Charge	0 ~ 54°C (32 ~ 129°F)
	Storage	-20 ~ 40°C (-4 ~ 104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Charging Current(25°C)	40.5A	
Charge voltage(25°C)	Float	13.62V
	Temp. Coefficient	-3mV/cell/°C
	Equalization(Cycle)	14.1~14.4V
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	PIC series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter. Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.	



## Layout



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

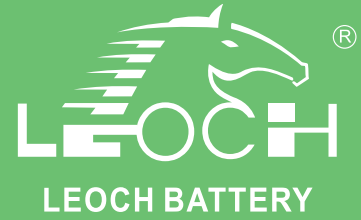
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	204.5	187.0	165.4	134.5	104.7	87.0	51.8	37.0	29.1	24.1	16.2	13.4	6.91
1.80V/cell	230.9	202.7	176.8	139.5	107.9	89.2	52.5	37.6	29.6	24.6	16.4	13.5	7.00
1.75V/cell	250.3	214.5	185.6	145.6	112.2	91.3	53.1	38.1	29.9	24.8	16.5	13.6	7.24
1.70V/cell	271.0	228.5	193.9	150.3	114.5	92.9	53.8	38.5	30.2	24.9	16.6	13.7	7.27
1.67V/cell	285.8	238.7	200.0	155.0	116.8	94.6	54.4	38.7	30.3	25.0	16.7	13.7	7.30
1.60V/cell	299.2	247.5	206.1	159.8	119.0	96.1	55.1	39.1	30.7	25.3	16.8	13.8	7.32

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	388.9	357.8	318.4	261.8	206.7	172.4	103.5	74.3	58.5	48.6	32.9	27.0	14.5
1.80V/cell	432.4	382.6	336.8	269.9	212.0	175.9	104.5	75.1	59.3	49.4	33.1	27.2	14.6
1.75V/cell	463.9	401.1	350.6	279.4	218.8	178.9	105.2	75.7	59.7	49.6	33.2	27.3	14.7
1.70V/cell	496.0	423.3	362.7	285.9	222.0	181.1	105.8	76.1	60.0	49.8	33.4	27.3	14.7
1.67V/cell	515.0	436.5	371.2	293.7	225.7	183.6	106.8	76.5	60.2	50.0	33.4	27.4	14.7
1.60V/cell	527.8	444.5	376.0	298.8	227.2	184.8	107.3	76.6	60.4	50.0	33.6	27.3	14.7



# PLC-Pure Lead Long Cycle Life PLC 150FT (12V135Ah)



## Applications

- Unstable Grid System
- UPS System
- Renewable Energy System

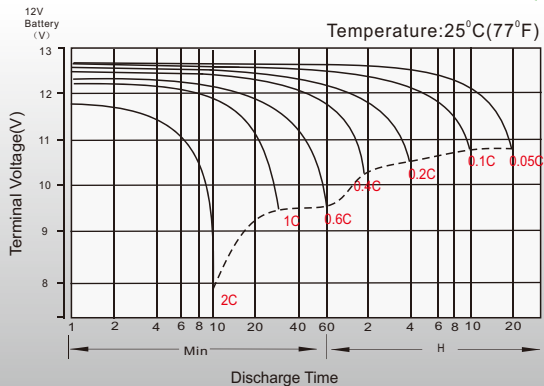
## General Features

- 15 years design life(25°C)
- Outstanding high rate charge capability with Thin Plate Pure Lead technology
- High-rate performance, high energy density
- Virgin pure lead plates / copper alloy
- High quality AGM separators minimize electrical resistance to allow high current discharging properties.

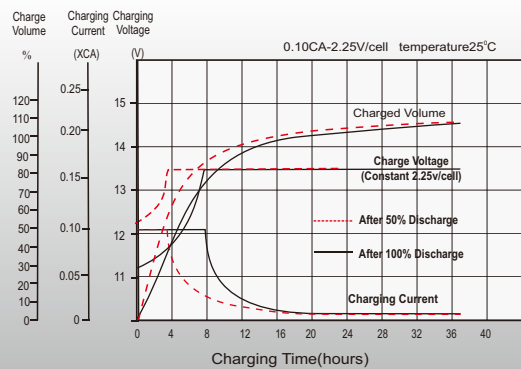
## Standards

- Compliance with IEC 60896 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

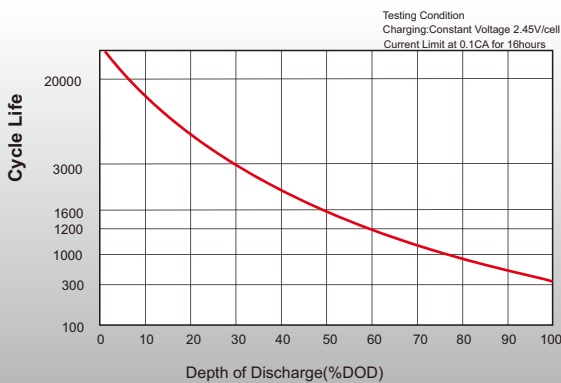
## Discharge Characteristics



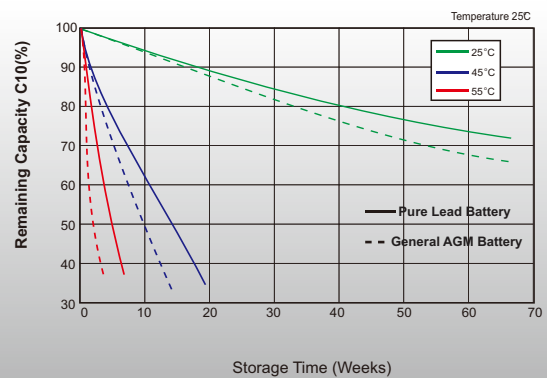
## Float Charging Characteristics



## Cycle Life vs. Depth of Discharge



## Self-discharge Characteristics



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