



Pure Lead Carbon(Long Cycle Life)

PLC+C 180FT (12V 180Ah)

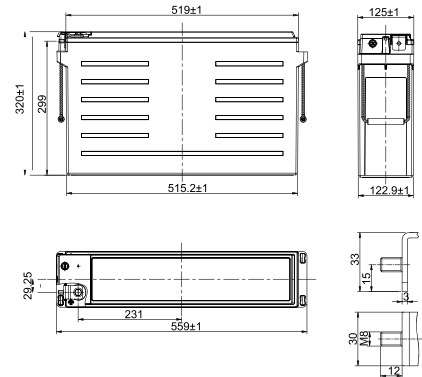


Specifications

Rated Voltage	12V	
Nominal Capacity	$C_{20}, 1.80V/cell$	180Ah
Dimension	Length	559±3mm (22.0 inches)
	Width	125±2mm (4.92 inches)
	Container Height	320±3mm (12.6 inches)
	Total Height	320±3mm (12.6 inches)
Weight	Approx 57.6kg(127.0lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94V-0	
Rated Capacity (25°C)	170.0Ah	(10hr, 17.0A, 1.80V/cell)
	167.2Ah	(8hr, 20.9A, 1.75V/cell)
	156.5Ah	(5hr, 31.3A, 1.75V/cell)
	144.6Ah	(3hr, 48.2A, 1.75V/cell)
	121.6Ah	(1hr, 121.6A, 1.60V/cell)
Max. Discharge Current	3400A (5s)	
Internal Resistance (25°C)	Approx. 3.5mΩ(Fully charged)	
Operating Temp.Range	Discharge	-40°C ~ 55°C(-40°F ~ 131°F)
	Charge	-20°C ~ 54°C (-4°F ~ 129°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 0.1CA. Voltage	
	2.35V~2.40V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage	
	2.25V~2.30V at 25°C(77°F)Temp. Coefficient -2mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 25°C	



Layout



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

F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h	24h	48h	72h	100h
1.85V/cell	170.1	110.0	65.5	46.9	36.8	30.5	20.5	16.9	8.81	7.76	4.08	2.80	1.93
1.80V/cell	176.6	112.9	66.5	47.6	37.4	31.1	20.8	17.0	9.00	7.92	4.17	2.86	1.97
1.75V/cell	184.3	115.5	67.2	48.2	37.9	31.3	20.9	17.1	9.05	8.04	4.23	2.90	2.00
1.70V/cell	190.0	117.5	68.0	48.7	38.1	31.5	21.0	17.2	9.08	/	/	/	/
1.65V/cell	196.1	119.7	68.8	49.0	38.5	31.7	21.1	17.3	9.13	/	/	/	/
1.60V/cell	202.1	121.6	69.8	49.5	38.8	32.0	21.2	17.5	9.16	/	/	/	/

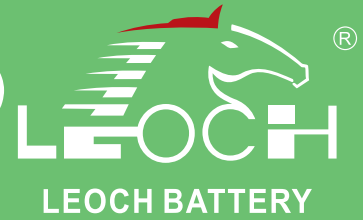
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h	24h	48h	72h	100h
1.85V/cell	334.1	218.1	130.8	93.9	74.1	61.6	41.6	35.6	18.0	15.9	8.4	5.8	3.97
1.80V/cell	344.3	222.6	132.1	95.1	75.0	62.4	42.0	35.7	18.3	16.1	8.5	5.8	4.02
1.75V/cell	356.2	226.3	133.1	95.9	75.5	62.7	42.1	35.8	18.3	16.3	8.6	5.9	4.05
1.70V/cell	363.9	229.1	133.9	96.3	75.9	63.0	42.2	35.4	18.3	/	/	/	/
1.65V/cell	372.9	232.3	135.1	96.7	76.2	63.2	42.3	36.0	18.4	/	/	/	/
1.60V/cell	380.6	233.8	135.6	97.0	76.4	63.5	42.6	36.2	18.4	/	/	/	/



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Applications

- Outdoor cabinet
- New energy storage
- High voltage power station
- Mobile Power Supply for Vehicles
- Base station with unstable power grid

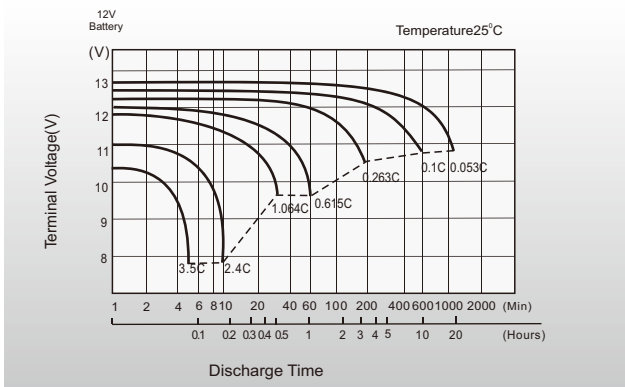
General Features

- Low self-discharging rate
- Excellent Fast charging acceptance:
1 hour to 90% SoC
- Excellent high rate discharge performance
- Advanced lead acid batteries: Pure Lead
Thin Plate Carbon Technology

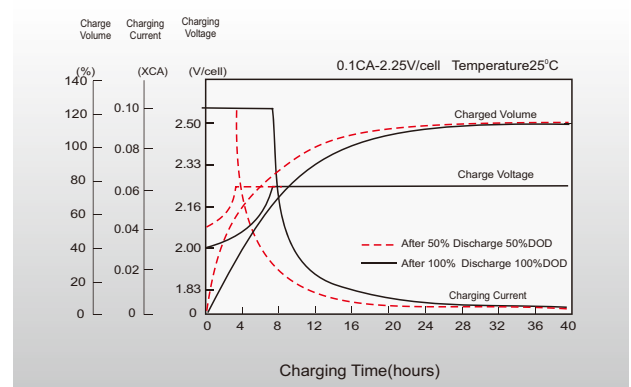
Standards

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

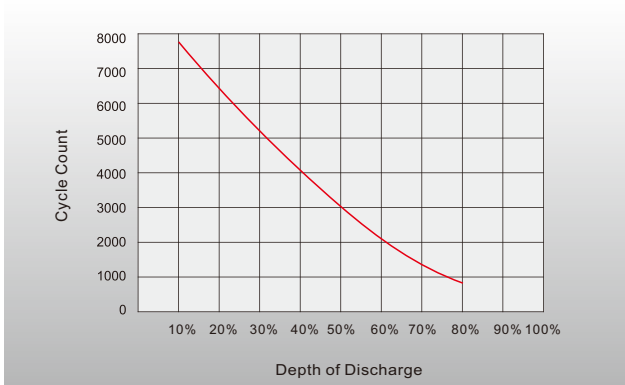
Discharge Characteristics



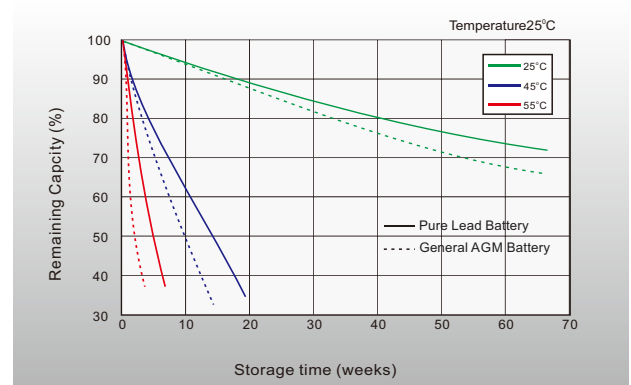
Float Charging Characteristics



Cycle Life vs. Depth of Discharge



Self-discharge Characteristics



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