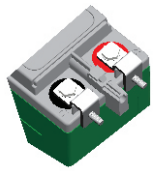
PLH+C-Pure Lead Carbon
PLH+C 62FT (12V62Ah)

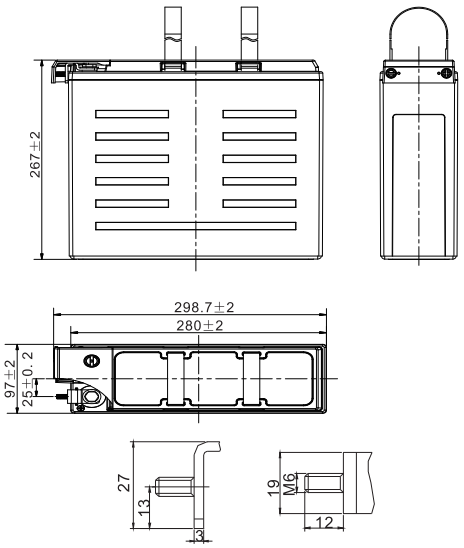
LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Capacity	C_{10},1.80V/cell	62Ah
	C_8,1.75V/cell	62Ah
Dimension	Length	298.7±2mm (11.76 inches)
	Width	97±2mm (3.82 inches)
	Container Height	267±2mm (10.51 inches)
	Total Height	267±2mm (10.51 inches)
Approx. Weight		19.5 Kg (43.0 lbs)
Terminal		M6
Container Material		PC-ABS flame retardant jar and cover to UL94 V-0
Rated Capacity (25°C)	62.0 Ah	(10hr, 6.20A,1.80V/cell)
	62.0 Ah	(8hr, 7.75A,1.75V/cell)
	58.5 Ah	(5hr, 11.7A,1.75V/cell)
	53.1 Ah	(3hr, 17.7A,1.75V/cell)
	45.6 Ah	(1hr, 45.6A,1.67V/cell)
Max. Discharge Current		744A
Internal Resistance (25°C)		Approx. 4.8mΩ(Fully charged)
Operating Temp.Range	Discharge	-40 ~ 65°C (-40 ~ 149°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-20 ~ 40°C (-4 ~ 104°F)
Nominal Operating Temp. Range		25±3°C (77±5°F)
Max.Charging Current(25°C)		18.6A
Charge voltage(25°C)	Float	13.62V
	Temp. Coefficient	-3mV/cell/°C
	Equalization	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	PLH+C 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



Unit: mm

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

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	118.3	97.4	83.3	65.3	49.8	40.6	23.8	17.0	13.8	11.3	7.51	6.14	3.29
1.80V/cell	130.0	105.6	89.5	69.1	52.1	42.1	24.3	17.3	14.0	11.5	7.65	6.20	3.37
1.75V/cell	142.1	113.9	95.6	73.0	54.5	43.7	24.9	17.7	14.3	11.7	7.75	6.35	3.44
1.70V/cell	152.9	121.0	100.7	76.2	56.4	45.0	25.4	17.9	14.5	11.9	7.85	6.41	3.49
1.67V/cell	158.7	124.6	103.2	77.7	57.3	45.6	25.6	18.0	14.5	11.9	7.92	6.41	3.51
1.60V/cell	169.2	130.5	107.2	79.8	58.4	46.4	25.9	18.3	14.7	12.1	8.06	6.54	3.53

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

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	224.1	184.0	159.3	121.0	92.8	75.3	44.1	33.5	27.1	22.5	14.9	12.2	6.52
1.80V/cell	241.4	195.1	168.3	126.8	94.3	76.8	45.1	33.9	27.6	22.7	15.0	12.4	6.70
1.75V/cell	252.8	202.2	173.4	130.0	96.3	78.2	45.7	34.5	28.0	22.9	15.2	12.5	6.80
1.70V/cell	263.8	209.1	178.3	133.1	96.7	78.4	46.3	34.9	28.4	23.1	15.4	12.6	6.87
1.67V/cell	275.9	212.2	180.4	134.4	97.5	79.0	47.2	35.1	28.5	23.5	15.5	12.7	6.90
1.60V/cell	284.7	217.6	182.6	136.6	98.8	79.9	47.5	35.4	28.8	23.7	15.6	13.1	6.92

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Applications

- Backup Power
- Grid-connected Energy Storage System
- Off-grid Energy Storage System
- Demand charge reduction
- Time-of-Use bill management

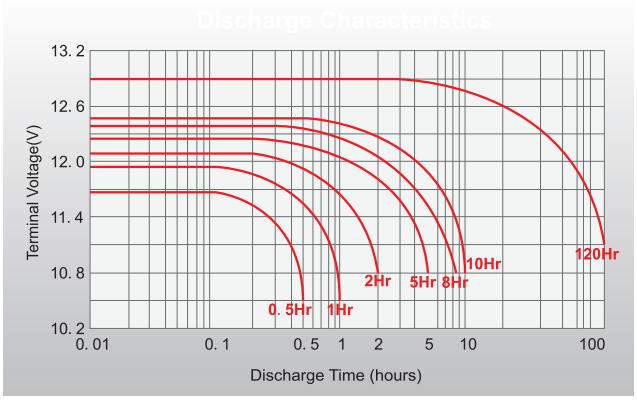
General Features

- High energy density
- Low internal resistance and self-discharge rate
- Excellent fast charging acceptance: 1.5hour to 90% SOC
- Excellent high rate discharge performance in low temperature
- Super high PSoC cycle life

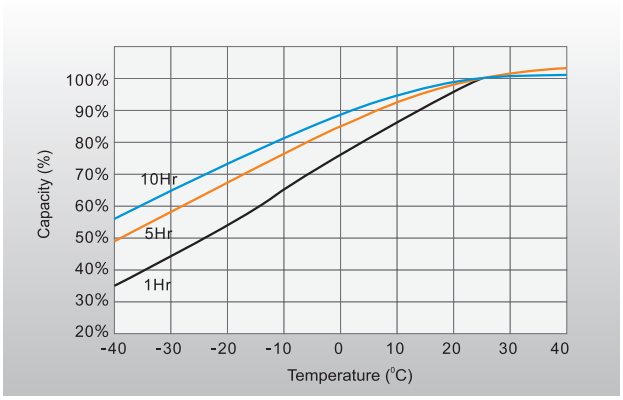
Standards

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

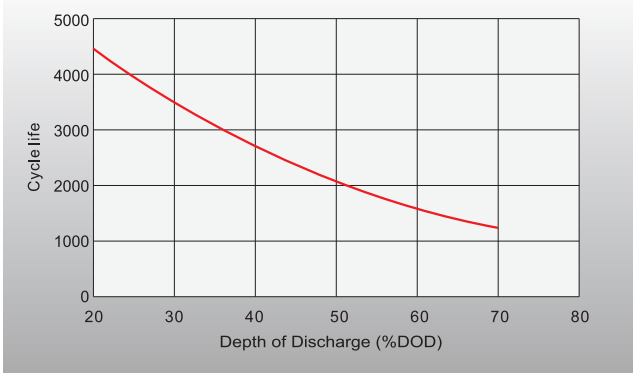
Discharge Characteristics



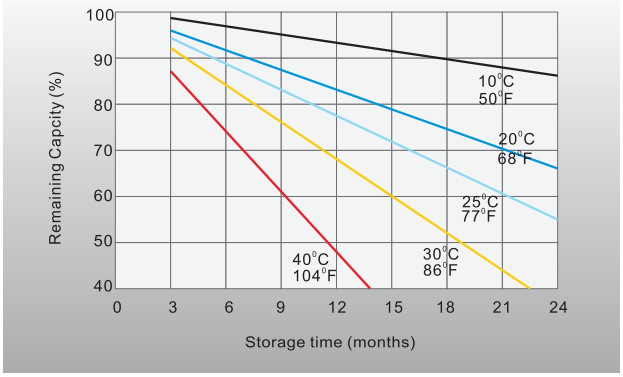
Temperature in Relation to Capacity



Cycle Life vs. Depth of Discharge



Self-discharge Characteristics



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