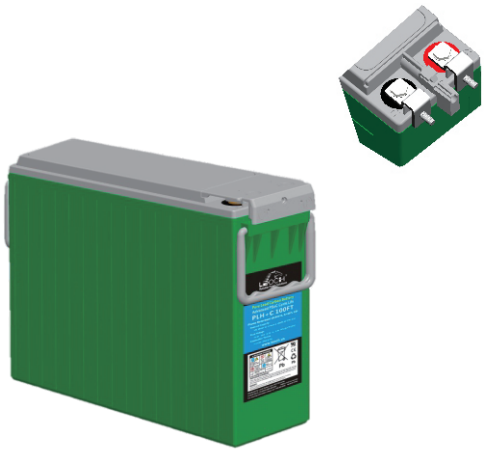
PLH+C-Pure Lead Carbon
PLH+C 100FT (12V100Ah)

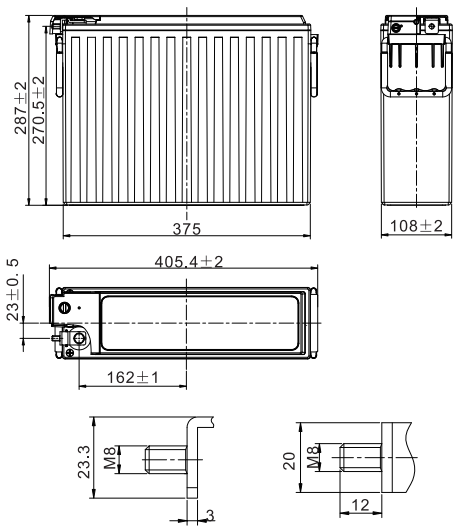
LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Capacity	C_{10},1.80V/cell	100Ah
	C_8,1.75V/cell	100Ah
Dimension	Length	405.4±2mm (15.96 inches)
	Width	108±2mm (4.25 inches)
	Container Height	287±2mm (11.30 inches)
	Total Height	287±2mm (11.30 inches)
Approx. Weight		30.8 Kg (67.9 lbs)
Terminal		M8
Container Material		PC-ABS flame retardant jar and cover to UL94 V-0
Rated Capacity (25°C)	100 Ah	(10hr,10.0A,1.80V/cell)
	100 Ah	(8hr,12.5A,1.75V/cell)
	94.5 Ah	(5hr,18.9A,1.75V/cell)
	84.0 Ah	(3hr,28.0A,1.75V/cell)
	72.4 Ah	(1hr,72.4A,1.67V/cell)
Max. Discharge Current		1200A
Internal Resistance (25°C)		Approx. 4.5mΩ(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)		30.0A
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



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	185.9	153.1	131.0	102.5	78.2	63.8	37.4	26.7	21.0	18.3	12.1	9.90	5.31
1.80V/cell	206.4	167.6	142.0	109.8	82.7	66.9	38.5	27.4	21.4	18.6	12.3	10.0	5.43
1.75V/cell	225.6	180.8	151.7	115.9	86.5	69.4	39.6	28.0	21.7	18.9	12.5	10.2	5.54
1.70V/cell	242.7	192.1	160.0	120.9	89.6	71.4	40.3	28.3	22.0	19.2	12.7	10.3	5.62
1.67V/cell	251.9	197.8	163.9	123.3	90.9	72.4	40.6	28.5	22.2	19.3	12.8	10.3	5.65
1.60V/cell	268.5	207.3	170.2	126.7	92.7	73.6	41.2	28.9	22.5	19.5	12.9	10.5	5.70

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	358.5	286.8	251.0	192.6	150.9	123.5	73.2	52.6	41.3	36.1	24.0	19.7	10.5
1.80V/cell	401.2	314.7	271.4	204.5	157.3	130.3	76.1	53.7	42.1	36.6	24.3	19.9	10.8
1.75V/cell	431.1	334.0	285.4	213.6	160.5	134.7	77.8	54.7	42.7	37.2	24.6	20.2	11.0
1.70V/cell	448.5	345.0	293.3	218.5	163.6	138.1	79.1	55.4	43.2	37.7	24.9	20.4	11.1
1.67V/cell	467.8	357.5	302.4	224.4	167.3	139.6	79.7	55.7	43.5	37.9	25.0	20.5	11.2
1.60V/cell	481.6	365.9	308.0	227.7	169.2	141.4	80.4	56.2	43.8	38.2	25.2	21.1	11.2

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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

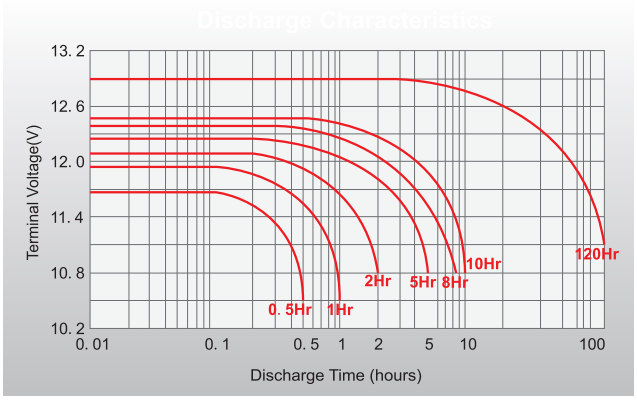
General Features

- 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

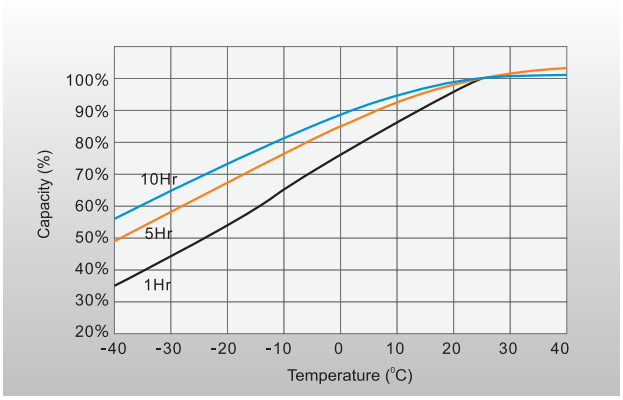
Standards

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

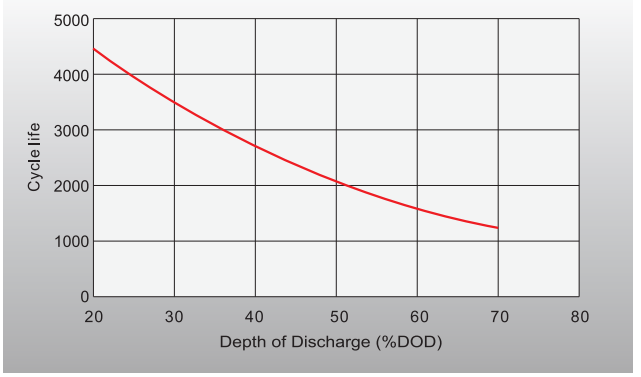
Discharge Characteristics



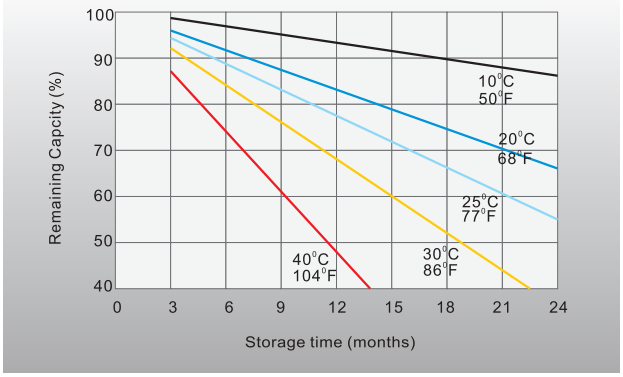
Temperature in Relation to Capacity



Cycle Life vs. Depth of Discharge



Self-discharge Characteristics



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