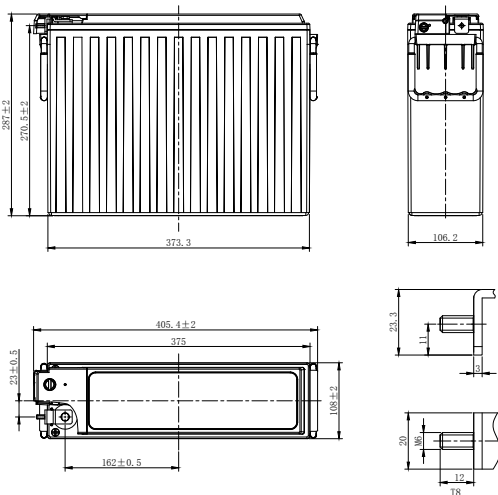
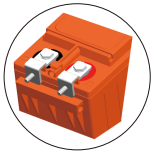


PLH-PURE LEAD LONG STANDBY LIFE

PLH90FT(A) (12V90Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	90Ah
	C ₈ , 1.75V/cell	90Ah
Dimension	Length	405.4mm (16.0inches)
	Width	108mm (4.25inches)
	Container Height	287mm (11.3inches)
	Total Height	287mm (11.3inches)
Approx Weight	28.7kg (63.3lbs)	
Terminal	T8(M6)	
Container Material	PC-ABS (UL94 V-0)	
Short-circuit current	1800A	
Internal Resistance (25°C)	Approx 4.6 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-40~65°C (-40~149°F)
	Charge	-20~54°C (-4~129°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Float Charge	Equalization Charge
	2.27±0.02V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-4mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	Self Discharge	PLH 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.

DISCHARGE TABLE

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	174.2	145.4	124.6	99.2	74.3	54.7	35.3	25.1	20.1	16.2	10.7	8.92	4.61
1.80V/cell	195.8	162.6	134.8	104.0	78.6	57.0	36.6	26.1	20.3	16.4	11.0	9.00	4.72
1.75V/cell	213.0	171.4	144.2	110.8	82.2	59.1	37.7	26.8	20.6	16.6	11.3	9.18	4.77
1.70V/cell	227.4	181.3	151.8	115.2	85.1	60.6	38.4	27.0	20.8	16.7	11.3	9.36	4.84
1.67V/cell	242.4	188.6	155.6	119.3	86.4	62.3	38.9	27.8	21.0	17.2	11.5	9.72	4.88
1.60V/cell	256.0	197.4	161.6	120.4	88.1	63.4	39.2	28.1	21.1	17.5	11.7	9.90	4.96
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	332.3	278.1	239.8	193.1	146.8	108.4	70.4	50.3	40.4	32.7	21.7	18.2	9.42
1.80V/cell	367.5	306.9	256.8	201.1	154.5	112.3	72.5	52.1	40.7	33.0	22.2	18.3	9.62
1.75V/cell	395.8	320.5	272.5	212.6	160.3	115.9	74.3	53.1	41.2	33.3	22.8	18.6	9.69
1.70V/cell	416.1	334.9	284.1	219.2	165.0	118.1	75.2	53.2	41.4	33.4	22.7	18.9	9.82
1.67V/cell	439.2	344.9	288.7	226.0	166.9	121.0	76.0	54.5	41.7	34.3	23.1	19.5	9.88
1.60V/cell	451.5	353.4	295.0	225.2	168.3	122.0	75.8	54.6	41.5	34.6	23.3	19.8	10.0

PLH-PURE LEAD LONG STANDBY LIFE

PLH90FT(A) (12V90Ah)

APPLICATIONS

- Telecommunication
- Railway signal
- Alarm and security system
- Power station systems
- Emergency power supply
- Electric Power System (EPS)
- Communication power supply

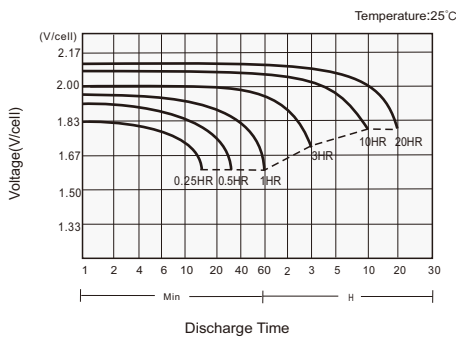
GENERAL FEATURES

- 20 years design life (25°C)
- Utilizes pure lead technology. Thin positive grids and unique manufacturing process to maximize corrosion resistance and service life while increasing energy density
- High purity and superior quality AGM separators to reduce self discharge rates and float currents
- Case and cover are UL94 V-0 and highly resistant to shock, heat sealed and 100% tested to prevent leaks
- Front access design for easy installation and maintenance

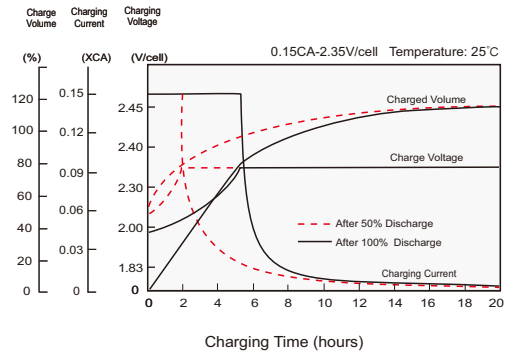
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in Leoch@IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

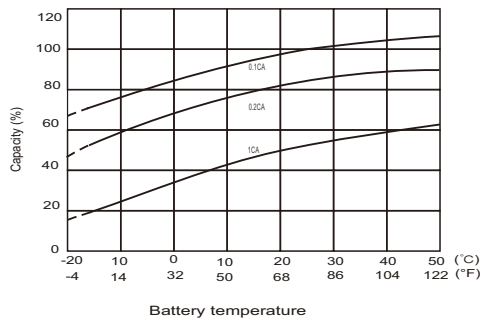
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

