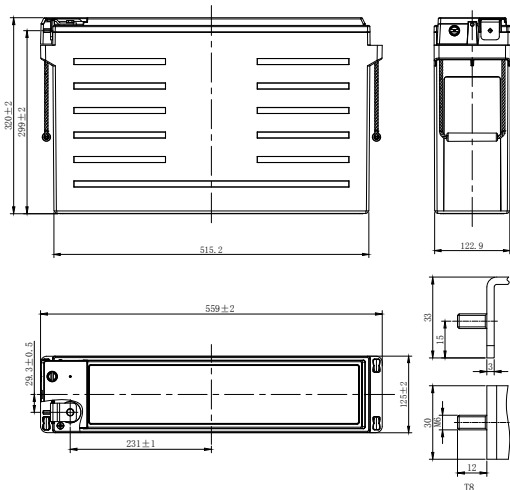


PLH-PURE LEAD LONG STANDBY LIFE

PLH190FT(A) (12V190Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	190Ah
	C ₈ , 1.75V/cell	190Ah
Dimension	Length	559mm (22.0inches)
	Width	125mm (4.92inches)
	Container Height	320mm (12.6inches)
	Total Height	320mm (12.6inches)
Approx Weight	57.6kg (127.0lbs)	
Terminal	T8(M6)	
Container Material	PC-ABS (UL94 V-0)	
Short-circuit current	3800A	
Internal Resistance (25°C)	Approx 3 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)	Standby Use	Equalization Use
	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	341.5	292.9	249.5	195.0	149.8	123.1	73.3	52.8	41.2	33.1	22.6	18.4	9.67
1.80V/cell	377.8	321.9	267.1	210.0	158.3	128.7	76.2	54.6	42.1	34.0	23.4	19.0	9.98
1.75V/cell	408.5	343.7	282.3	218.8	162.5	133.7	77.8	55.6	43.1	34.6	23.8	19.2	10.1
1.70V/cell	434.6	359.7	295.2	226.0	167.3	136.8	78.9	56.3	43.5	35.0	23.9	19.4	10.1
1.67V/cell	456.3	372.5	301.7	231.0	170.3	138.9	79.5	57.1	43.7	35.2	24.0	19.5	10.2
1.60V/cell	482.0	391.2	311.9	236.2	174.7	140.2	80.2	58.0	44.1	35.4	24.1	19.7	10.3
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	647.5	560.5	480.0	379.7	295.6	243.6	145.7	105.5	82.4	66.5	46.5	37.5	19.7
1.80V/cell	705.2	607.9	509.1	406.1	311.0	253.5	151.2	108.9	84.2	68.6	47.3	38.6	20.3
1.75V/cell	755.0	642.7	533.5	419.9	316.9	261.8	153.7	110.9	86.0	69.2	47.9	38.8	20.5
1.70V/cell	790.7	664.0	552.0	429.9	324.3	267.0	155.9	111.8	86.6	69.8	47.9	39.0	20.6
1.67V/cell	822.0	690.5	560.0	437.9	329.0	269.6	156.5	113.1	87.0	70.0	48.1	39.1	20.6
1.60V/cell	845.3	700.5	569.2	442.0	333.3	269.9	158.5	114.8	87.5	70.5	48.3	39.8	20.6

PLH-PURE LEAD LONG STANDBY LIFE

PLH190FT(A) (12V190Ah)



APPLICATIONS

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

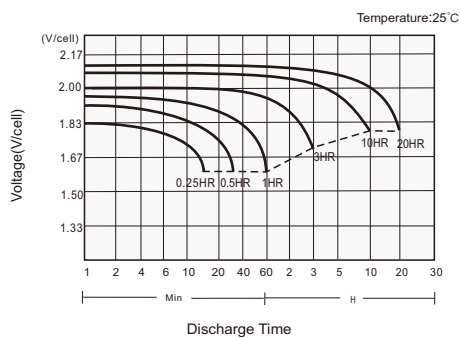
GENERAL FEATURES

- 20 years design life (25°C)
- Utilizes TPPL 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

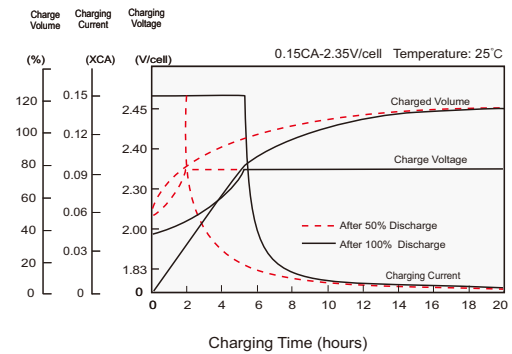
STANDARDS

- 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

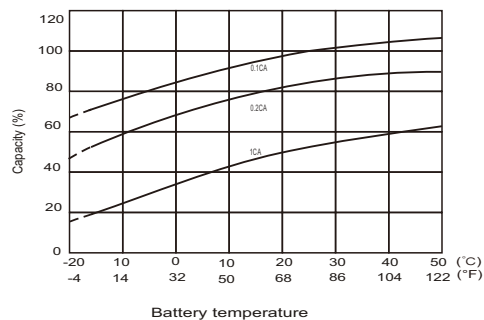
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

