



PLH Series Long Standby Life Battery

PLH100FT (12V100AH)

The Exponential Power PLH Series range of VRLA batteries are well suited to provide battery backup in outdoor application long duration or outside plant application.

All Exponential Power PLH Series batteries use CCPP plate technology offering exceptional service life.



Ah @ 8hr 1.75 vpc/77°F (25°C)	96 Ah		
Ah @ 10hr 1.80 vpc/77°F (25°C)	101 Ah		
Nominal Voltage	12V		
Max. Charge Current (A) (5 hour rate @ 1.75vpc)	25 Amps		
Electrolyte Absorbed H ₂ SO ₄	1.300		
Short Circuit Current (A)	2318 Amps		
Internal Resistance (mΩ)	5.47		
Terminal Type	Torque		
M6-M (Front L Bracket)	78 in-lbs (8 ±1 Nm)		
M6-F (Top Insert)	78 in-lbs (8 ±1 Nm)		
Dimension	in	mm	
Length	15.55	395	
Length Base	14.49	368	
Width	4.25	108	
Overall Height	11.30	287	
	Lbs.	Kg	
Weight	69	31.20	
CLEI	PBMYAGBSRA	CPR	216341

Technical Features:

- Flame Retardant ABS Cover and Container, UL94 V-0, LOI>28%
- Epoxy TPS design for high reliability post seal
- 24 months of storage at 68°F (20°C)
- Initial capacity at 100%
- Low pressure one-way flame arresting valve(s) UL1989
- Absorbent Glass Mat (AGM) Sealed Technology, Recombination efficiency of 99.9%

Compliance and Safety:

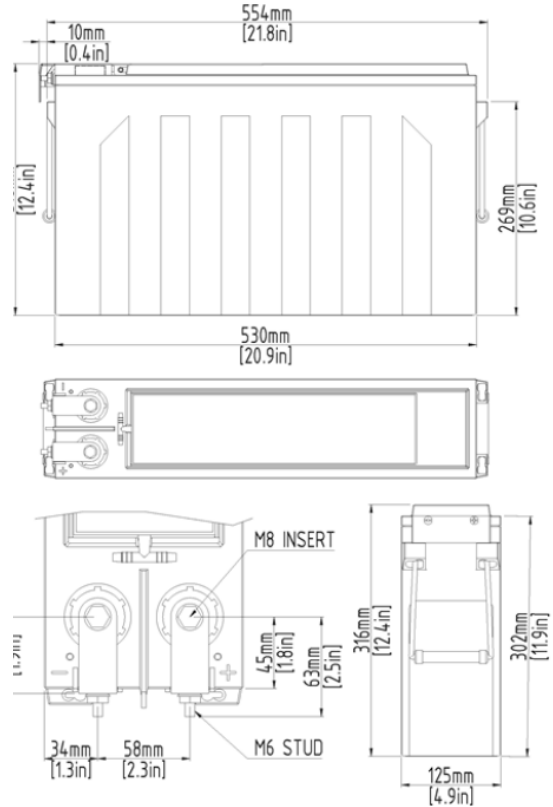
- **ISO 9001:2000 and ISO 14001:2004 certified facilities**
- UL Recognized Component 924, for use in or with listed UL1778, UL1989 and UL924 systems
- IEC60896-21/22 / BS6290 part 4
- Certified to NEBS Version 8, Level 3
- Telcordia GR-1089-CORE, Issue 6
- Telcordia GR-63-CORE, Issue 4
- **Manufactured under system ISO9001(TUV)**
- Battery installation compliant with: EN 50272-2 or local equivalents
- NEBS Earthquake Risk Seismic Zone 4 Compliant

Transportation:

- Classified as Nonspillable UN 2800 and meet the Nonspillable criteria listed in DOT-CFR Title 49, 171-189 (d) (3) (i) and (ii) and exempt from CFR 49, Subchapter C requirements
- Meets transportation conditions of IMDG exemption 238, IATA/ICAO Special Provision A67 (Not Restricted)

Operating Parameters

Floating Charging Voltage	13.5 V / 2.25vpc @ 77°F (25°C)
Equalize Cycle	14.0V – 14.3V 2.33Vpc to 2.38Vpc @ 77°F (25°C)
See Operations and Maintenance Manual for specific guidelines and recharge times	
Changing Temperature Compensation	-2 mV/cell/°F > 77°F (-3.6 mV/cell/°C > 25°C)
	+2 mV/cell/°F < 77°F (+3.6 mV/cell/°C < 25°C)
Maximum AC Ripple (Charger)	0.5% RMS, 1.5% peak-to-peak for float charge voltage for best results
Operating Temperature Range	
Nominal	+74°F (24°C) to 80°F (27°C)
Charge	-20°F (-28°C) to +122°F (50°C)
Discharge	40°F (-40°C) to +140°F (60°C)
Storage Temperature Range	-4°F (-20°C) to +104°F (40°C)



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

End vpc	5m	15m	30m	45m	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.67	333	186	118	87.1	69.8	39.8	28.3	22.1	18.2	15.6	12.1	10.3	8.76	5.65	4.82
1.70	325	184	117	86.5	69.4	39.6	28.1	21.9	18.1	15.5	12.1	10.3	8.71	5.62	4.82
1.75	308	179	115	85.3	68.5	39.2	27.8	21.7	17.9	15.3	12.0	10.2	8.66	5.61	4.81
1.80	279	171	111	83.1	66.9	38.4	27.3	21.4	17.7	15.1	11.8	10.1	8.61	5.57	4.80
1.83	260	163	107	80.6	65.1	37.7	26.9	21.1	17.5	15.0	11.7	9.95	8.52	5.56	4.79
1.85	249	157	104	78.7	63.7	37.1	26.6	20.9	17.3	14.8	11.6	9.85	8.42	5.49	4.72
1.86	244	154	102	77.7	63.0	36.8	26.5	20.8	17.2	14.7	11.5	9.80	8.37	5.45	4.69

Constant Power Discharge (Watt/Cell) at 25°C (77°F)

End vpc	5m	15m	30m	45m	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.67	590	351	227	171	138	79.8	57.0	44.6	36.8	31.5	24.4	20.7	17.7	11.4	9.70
1.70	583	348	225	170	138	79.6	56.9	44.5	36.8	31.4	24.4	20.7	17.7	11.3	9.63
1.75	562	338	221	167	136	79.0	56.5	44.3	36.6	31.2	24.2	20.5	17.5	11.1	9.43
1.80	523	323	214	163	133	77.8	55.9	43.8	36.2	30.9	24.0	20.3	17.3	11.0	9.26
1.83	492	310	207	159	130	76.7	55.3	43.4	35.9	30.7	23.8	20.2	17.1	10.8	9.14
1.85	470	298	202	155	127	75.5	54.4	42.8	35.4	30.2	23.4	19.8	16.8	10.6	8.89
1.86	459	293	199	153	125	74.9	53.9	42.5	35.1	29.9	23.2	19.6	16.6	10.5	8.77