



PLX-Pure Lead High Rate

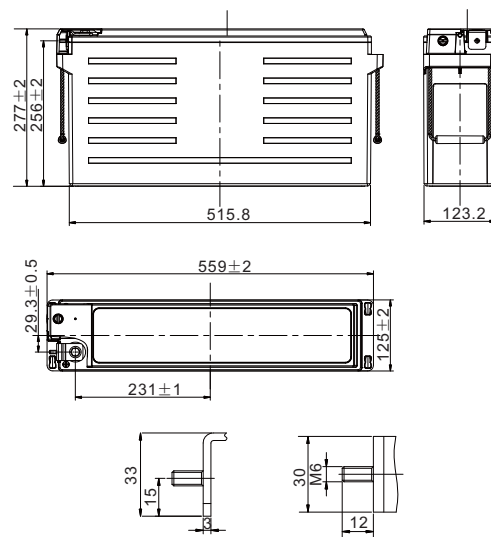
PLX12-620FT(A) (12V620W)

Specifications

Rated Voltage	12V	
Nominal Rate ($W_{15}, 1.67V/cell$)	620W	
Nominal Capacity ($C_{10}, 1.80V/cell$)	150Ah	
Dimension	Length	559±2mm (22.01 inches)
	Width	125±2mm (4.92 inches)
	Container Height	277±2mm (10.91 inches)
	Total Height	277±2mm (10.91 inches)
Approx. Weight	48.5 Kg (106.9 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	156.0 Ah	(20hr, 7.80A, 1.80V/cell)
	150.0 Ah	(10hr, 15.0A, 1.80V/cell)
	133.5 Ah	(5hr, 26.7A, 1.75V/cell)
	125.7 Ah	(3hr, 41.9A, 1.75V/cell)
	111.4 Ah	(1hr, 111.4A, 1.67V/cell)
Max. Discharge Current	1400A	
Internal Resistance (25°C)	Approx. 3.6mΩ(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)	45.0A	
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	<p>PLX series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter.</p> <p>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.</p>	



Layout



Unit: mm

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	376.6	292.5	249.7	218.6	162.6	124.5	98.3	54.1	39.2	31.0	24.9	17.9	14.7	7.65
1.80V/cell	433.6	337.2	278.3	238.8	173.7	130.7	102.2	56.6	40.9	32.3	26.1	18.5	15.0	7.80
1.75V/cell	474.0	369.1	301.5	254.9	184.8	136.2	106.0	58.2	41.9	33.2	26.7	18.8	15.2	7.89
1.70V/cell	510.7	399.1	320.8	268.1	191.9	141.0	108.6	59.0	42.7	33.7	27.1	18.9	15.4	7.96
1.67V/cell	570.0	420.4	338.3	278.5	199.7	145.5	111.4	60.1	43.2	34.2	27.4	19.2	15.5	8.02
1.60V/cell	614.3	445.5	355.8	290.7	202.1	148.4	113.2	61.0	43.7	34.6	27.7	19.4	15.6	8.08

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	705.8	561.5	484.7	425.3	318.6	246.3	194.9	108.0	78.3	62.3	50.2	36.2	29.8	15.6
1.80V/cell	803.7	640.6	536.7	461.8	338.3	256.6	201.6	112.3	81.4	64.5	52.2	37.3	30.4	15.9
1.75V/cell	867.8	693.4	575.5	488.4	357.0	265.7	207.5	114.9	83.0	66.0	53.3	37.8	30.7	16.0
1.70V/cell	926.3	740.1	606.3	508.8	367.6	273.1	211.3	116.2	84.3	66.8	53.9	38.0	31.0	16.1
1.67V/cell	950.0	769.4	620.0	523.1	384.0	280.3	215.7	117.7	85.0	67.5	54.3	38.3	31.1	16.2
1.60V/cell	1007.0	803.7	636.2	540.2	389.0	283.1	217.5	118.6	85.4	67.9	54.8	38.5	31.3	16.2



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Applications

- UPS
- Emergency lighting
- Emergency power supply
- Electrical starting
- Power tools

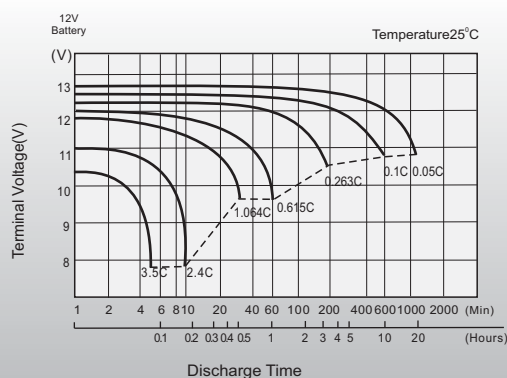
General Features

- 15 years design life(25°C)
- Premium ABS+PC jar & covers, Flame Retardant to UL94 V-0
- High-rate performance, high energy density
- High quality AGM separators minimize electrical resistance to allow high current discharging properties

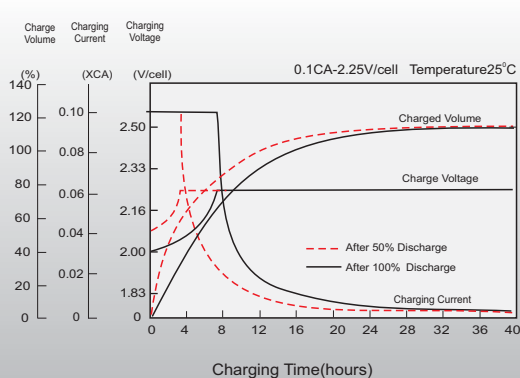
Standards

- Compliance with IEC 60896 standard
- Classified as "Very Long Life" according to Eurobat
- CE, UL Certified
- Manufactured in Leoch®IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

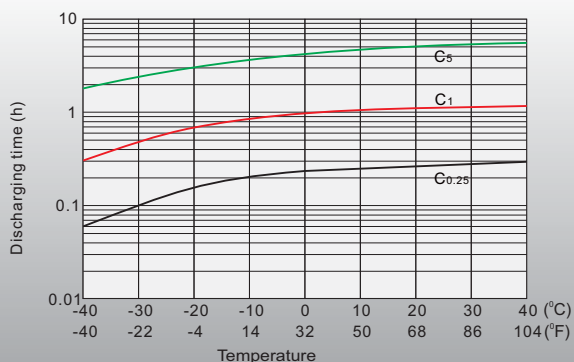
Discharge Characteristics



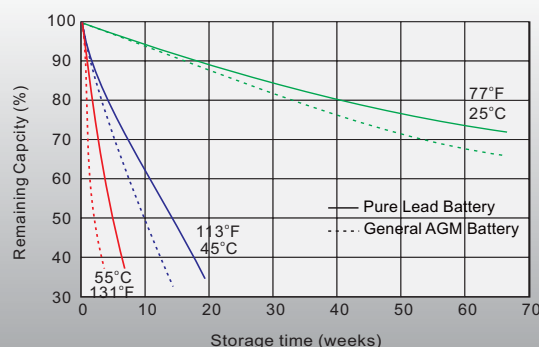
Float Charging Characteristics



Effects of Temperature on Discharging Time



Self-discharge Characteristics



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