



# PLX-Pure Lead High Rate PLX12-620 (12V620W)

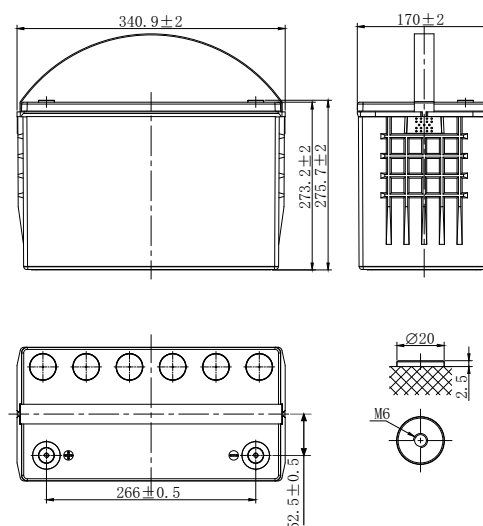


## Specifications

Rated Voltage	12V	
Nominal Rate ( $W_{15}, 1.67V/cell$ )	620W	
Nominal Capacity( $C_{20}, 1.80V/cell$ )	150Ah	
Dimension	Length	340.9±2mm (13.42 inches)
	Width	170±2mm (6.69 inches)
	Container Height	273.2±2mm (10.76 inches)
	Total Height	275.7±2mm (10.85 inches)
Approx. Weight	44.5 Kg (98.1 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)
	141.0 Ah	(5hr, 28.2A, 1.75V/cell)
	124.2Ah	(3hr, 41.4A, 1.75V/cell)
	107.0Ah	(1hr, 107.0A, 1.67V/cell)
Max. Discharge Current	1800A	
Internal Resistance (25°C)	Approx. 3.00mΩ(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



## 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	364.0	288.6	249.7	218.6	160.4	117.3	94.2	54.1	38.7	31.0	26.4	17.7	14.7	7.65
1.80V/cell	419.2	330.4	278.3	238.8	171.4	123.3	98.0	56.6	40.4	32.3	27.6	18.2	15.0	7.80
1.75V/cell	458.2	361.7	301.5	254.9	182.4	126.8	100.8	58.2	41.4	33.2	28.2	18.4	15.2	7.89
1.70V/cell	493.6	391.2	320.8	268.1	189.4	131.4	104.7	59.0	42.2	33.7	28.6	18.7	15.4	7.96
1.67V/cell	551.0	412.0	338.3	278.5	197.0	136.5	107.0	60.1	42.7	34.2	28.9	18.9	15.5	8.02
1.60V/cell	595.5	419.0	349.8	286.2	200.9	138.6	108.8	61.0	43.2	34.6	29.2	19.1	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	698.9	564.3	491.2	432.2	318.7	234.3	188.6	108.7	78.1	63.0	53.7	36.1	30.2	15.8
1.80V/cell	793.6	639.8	542.0	467.8	337.8	244.4	195.0	112.9	81.0	65.1	55.9	37.2	30.7	16.1
1.75V/cell	857.2	693.9	582.1	494.7	356.2	249.0	199.0	115.4	82.6	66.5	56.8	37.3	31.0	16.2
1.70V/cell	908.7	741.9	611.9	514.8	366.0	255.6	205.0	116.3	83.7	67.2	57.3	37.7	31.2	16.2
1.67V/cell	956.6	775.7	620.0	531.5	378.8	263.9	208.4	117.7	84.1	67.8	57.5	38.0	31.3	16.3
1.60V/cell	978.0	781.2	656.3	541.1	382.3	265.7	209.9	118.4	84.4	67.8	57.5	38.0	31.3	16.3



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## Applications

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

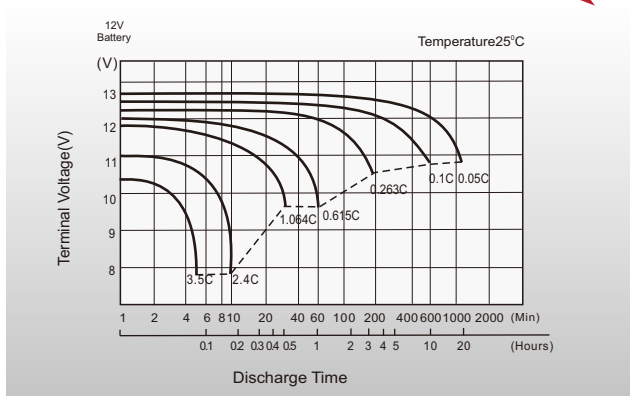
## General Features

- 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

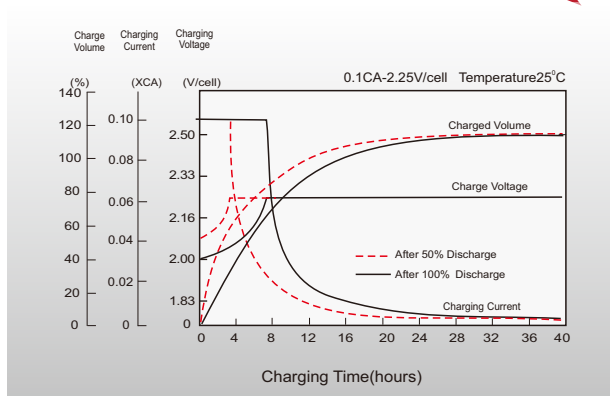
## Standards

- Conform to: IEC60896-21&22
- Classified as "Very Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

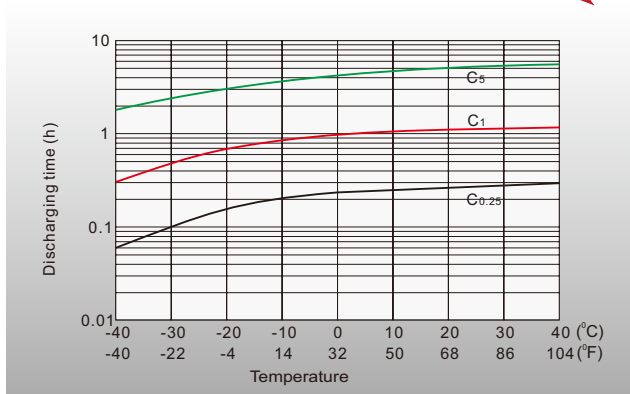
## Discharge Characteristics



## Float Charging Characteristics



## Effects of Temperature on Discharging Time



## Self-discharge Characteristics

