



PLX-Pure Lead High Rate

PLX12-540 (12V540W)



Specifications

Rated Voltage	12V	
Nominal Rate ($W_{15}, 1.67V/cell$)	540W	
Nominal Capacity ($C_{10}, 1.80V/cell$)	135Ah	
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	43.5 Kg (95.9 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Max. Discharge Current	1620A	
Internal Resistance (25°C)	Approx. 3.30mΩ(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)
	25±3°C (77±5°F)	
Max.Charging Current(25°C)	40.5A	
Charge voltage(25°C) Nominal Operating Temp. Range	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%

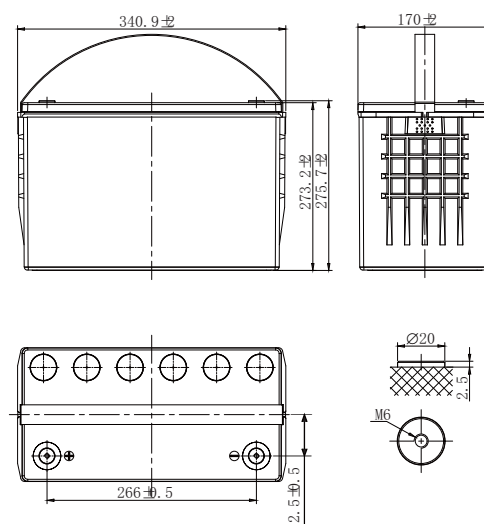
Self Discharge

PLX 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.



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	325.6	269.1	216.4	196.7	153.9	108.5	88.4	48.6	35.9	27.9	24.1	16.2	13.2	6.89
1.80V/cell	375.8	310.2	241.2	215.0	164.4	114.0	92.0	50.9	37.4	29.0	25.2	16.8	13.5	7.02
1.75V/cell	410.8	339.6	261.3	229.4	175.0	117.2	94.6	52.4	38.4	29.8	25.8	17.0	13.7	7.10
1.70V/cell	442.6	367.2	278.0	241.3	181.7	121.5	98.2	53.1	39.1	30.3	26.1	17.2	13.9	7.16
1.67V/cell	494.0	386.8	285.0	250.6	189.0	126.3	100.4	54.1	39.6	30.7	26.4	17.4	14.0	7.22
1.60V/cell	533.9	393.3	308.0	257.6	192.7	128.2	102.1	54.9	40.1	31.1	26.7	17.5	14.0	7.27

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	645.3	526.2	425.7	389.0	305.8	216.6	177.0	97.8	72.4	56.7	49.1	33.2	27.2	14.3
1.80V/cell	739.2	600.7	469.7	421.0	324.1	226.0	182.9	101.6	75.1	58.6	51.1	34.2	27.6	14.5
1.75V/cell	795.8	651.4	504.5	445.2	341.7	230.3	186.7	103.9	76.6	59.9	51.9	34.5	27.9	14.6
1.70V/cell	838.4	696.5	530.4	463.3	351.2	236.3	192.4	104.6	77.5	60.5	52.3	34.6	28.1	14.6
1.67V/cell	920.0	728.2	540.0	478.4	363.5	244.0	195.5	105.9	78.0	61.0	52.5	34.9	28.1	14.6
1.60V/cell	967.7	730.0	578.0	487.0	366.8	245.7	197.0	106.6	78.2	61.0	52.5	34.9	28.2	14.7



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Applications

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

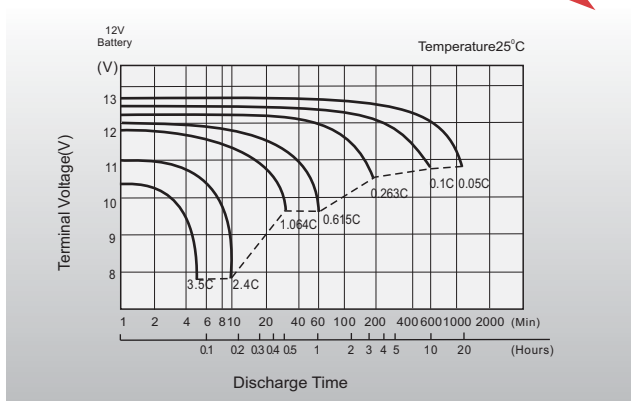
General Features

- 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

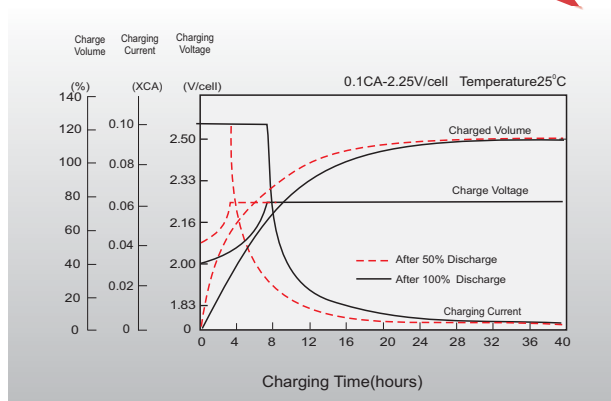
Standards

- 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

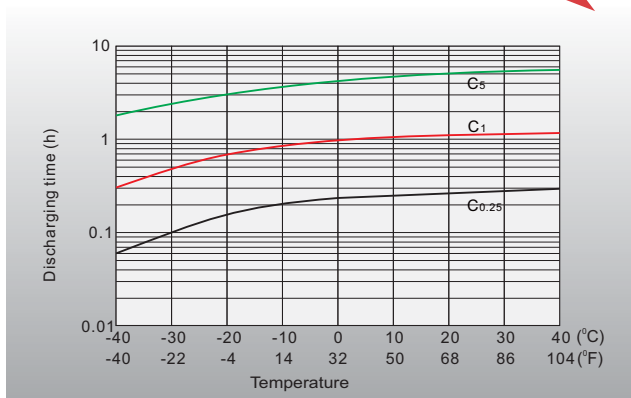
Discharge Characteristics



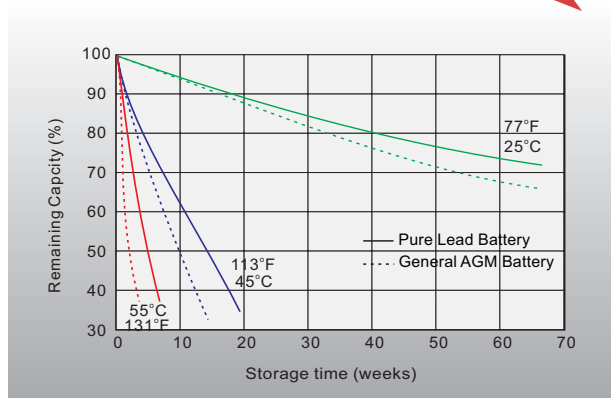
Float Charging Characteristics



Effects of Temperature on Discharging Time



Self-discharge Characteristics



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