



PLX-Pure Lead High Rate

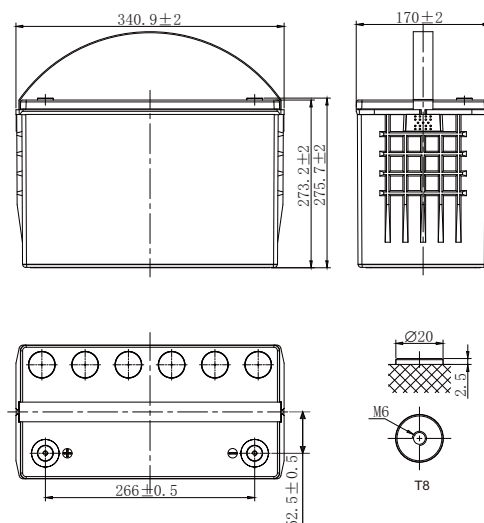
PLX12-650 (12V650W)

Specifications

Rated Voltage		12V
Nominal Rate ($W_{15}, 1.67V/cell$)		650W
Nominal Capacity ($C_{10}, 1.80V/cell$)		160Ah
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		45.8 Kg (100.9 lbs)
Terminal		T8(M6)
Container Material		PC-ABS flame retardant jar and cover to UL94 V-0
Max. Discharge Current		1800A
Short Circuit Current		4300A
Internal Resistance (25°C)		Approx. 3.0mΩ(Fully charged)
Operating Temp.Range	Discharge	-40 ~ 65°C (-40 ~ 149°F)
	Charge	0 ~ 54°C (32 ~ 129°F)
	Storage	-20 ~ 40°C (-4 ~ 104°F)
		25±3°C (77±5°F)
Max.Charging Current(25°C)		45A
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	364.0	288.6	249.7	218.6	160.4	117.3	94.2	54.1	38.7	31.0	26.4	17.7	15.7	7.95
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	16.0	8.20
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	16.2	8.10
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	16.4	8.16
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	16.5	8.30
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	16.6	8.40

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	978.9	814.3	581.2	512.2	400.7	294.3	218.6	108.7	78.1	63.0	53.7	36.1	30.2	15.8
1.80V/cell	993.6	831.2	592.0	524.8	403.8	297.4	235.0	112.9	81.0	65.1	55.9	37.2	30.7	16.1
1.75V/cell	1057.2	863.9	645.1	524.7	406.2	298.0	239.0	115.4	82.6	66.5	56.8	37.3	31.0	16.2
1.70V/cell	1080.7	891.9	645.9	534.8	410.0	298.6	245.0	116.3	83.7	67.2	57.3	37.7	31.2	16.2
1.67V/cell	1096.6	845.7	650.0	541.5	412.8	299.9	248.4	117.7	84.1	67.8	57.5	38.0	31.3	16.3
1.60V/cell	1178.0	851.2	651.3	545.1	415.3	301.7	249.9	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

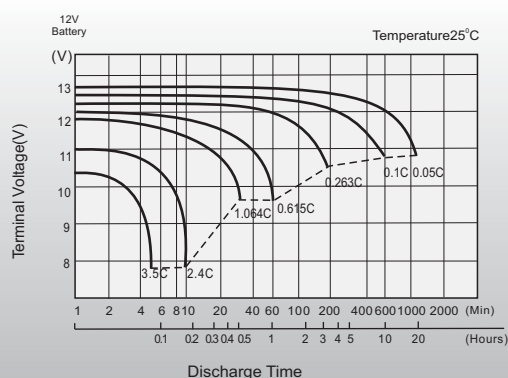
General Features

- 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

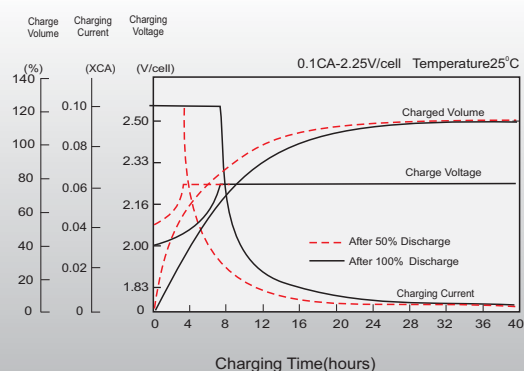
Standards

- 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

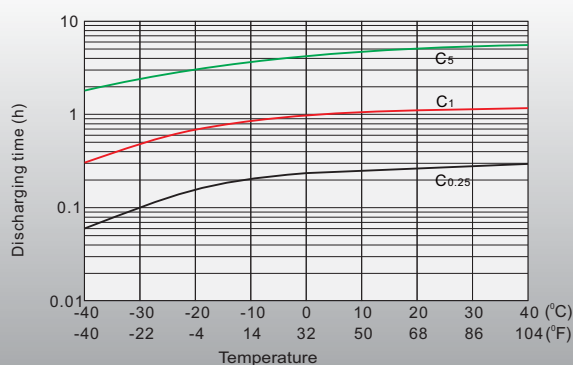
Discharge Characteristics



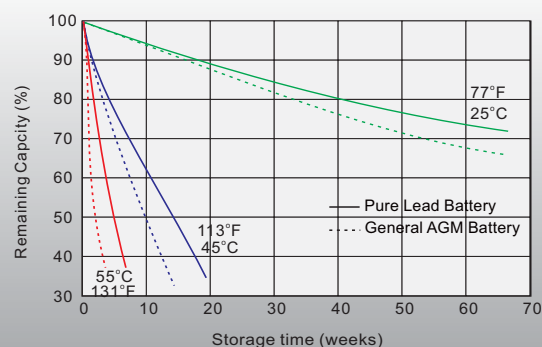
Float Charging Characteristics



Effects of Temperature on Discharging Time



Float Life



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