



PLX-Pure Lead High Rate

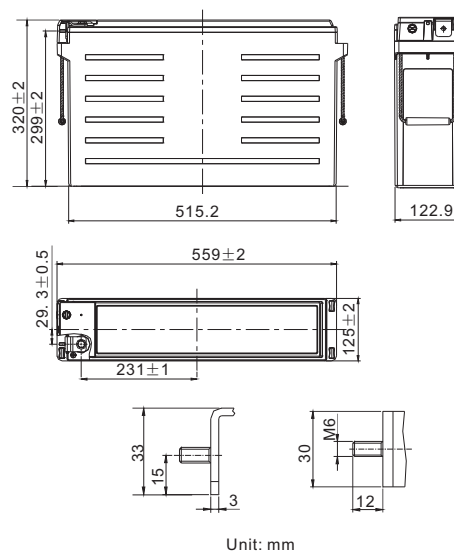
PLX12-700FT(A)(12V700W)

Specifications

Rated Voltage	12V	
Nominal Rate ($W_{15}, 1.67V/cell$)	700W	
Nominal Capacity ($C_{10}, 1.80V/cell$)	190Ah	
Dimension	Length	559±2mm (22.01 inches)
	Width	125±2mm (4.92 inches)
	Container Height	320±2mm (12.60 inches)
	Total Height	320±2mm (12.60 inches)
Approx. Weight	58.0 Kg (127.9 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	197.6 Ah	(20hr, 9.88A, 1.80V/cell)
	190.0 Ah	(10hr, 19.0A, 1.80V/cell)
	162.5 Ah	(5hr, 32.5A, 1.75V/cell)
	148.8 Ah	(3hr, 49.6A, 1.75V/cell)
	133.0 Ah	(1hr, 133.0A, 1.67V/cell)
Max. Discharge Current	1500A	
Internal Resistance (25°C)	Approx. 3.0mΩ(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)	57.0A	
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	390.6	331.5	290.2	249.5	188.7	139.1	112.5	64.9	46.8	36.8	30.7	21.4	18.4	9.58
1.80V/cell	448.7	370.6	323.7	275.7	203.5	148.0	118.8	67.2	48.6	38.0	31.7	22.1	19.0	9.88
1.75V/cell	488.8	399.5	344.5	294.1	216.2	155.5	124.5	68.7	49.6	39.0	32.5	22.5	19.3	10.1
1.70V/cell	535.7	428.0	362.3	306.9	226.5	162.2	128.6	70.5	50.7	39.8	33.1	22.9	19.5	10.2
1.67V/cell	641.3	453.1	374.1	319.2	234.6	167.4	133.0	71.8	51.3	40.1	33.5	23.3	19.6	10.3
1.60V/cell	656.0	477.7	390.1	327.6	241.6	172.1	136.0	73.0	51.6	40.5	33.8	23.4	19.8	10.4

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	730.9	636.4	560.3	485.5	369.7	275.2	223.2	129.6	93.7	73.9	61.8	43.5	37.4	19.5
1.80V/cell	832.4	704.1	621.8	533.1	396.3	290.8	234.1	133.4	96.8	76.0	63.6	44.5	38.5	20.1
1.75V/cell	898.8	750.5	657.6	563.4	417.4	303.2	243.7	135.8	98.4	77.5	64.8	45.3	39.0	20.4
1.70V/cell	959.4	793.6	684.9	582.5	434.0	314.3	250.5	138.8	100.2	78.9	65.8	46.1	39.3	20.6
1.67V/cell	983.9	829.2	700.0	599.6	450.3	322.6	257.5	140.7	101.0	79.3	66.5	46.6	39.4	20.7
1.60V/cell	1043.0	861.8	704.9	608.6	465.0	328.4	261.3	142.0	101.0	79.7	66.8	46.7	39.7	20.8



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Applications

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

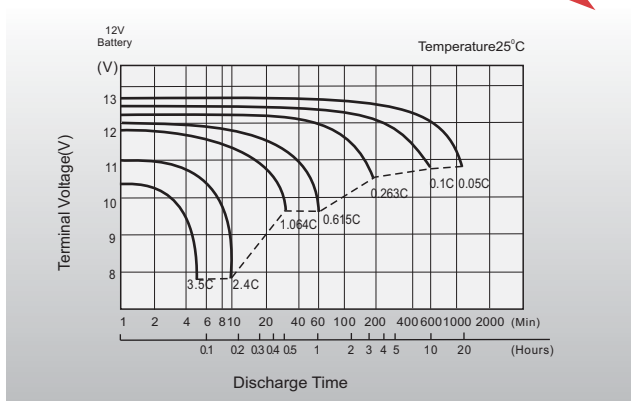
General Features

- 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

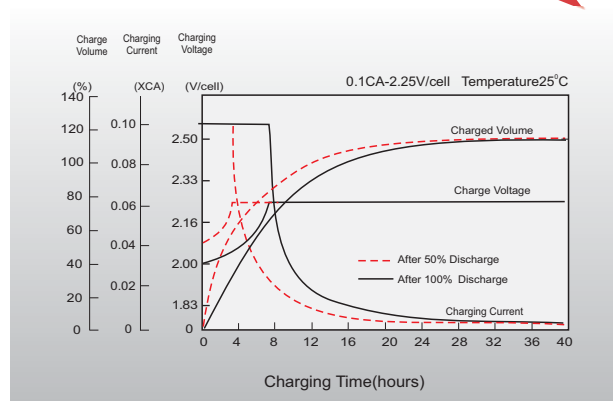
Standards

- 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

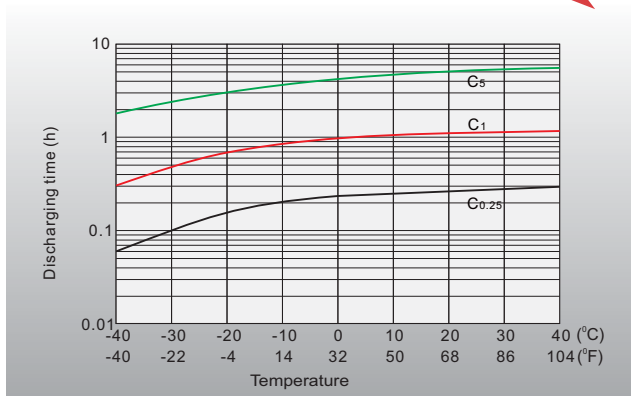
Discharge Characteristics



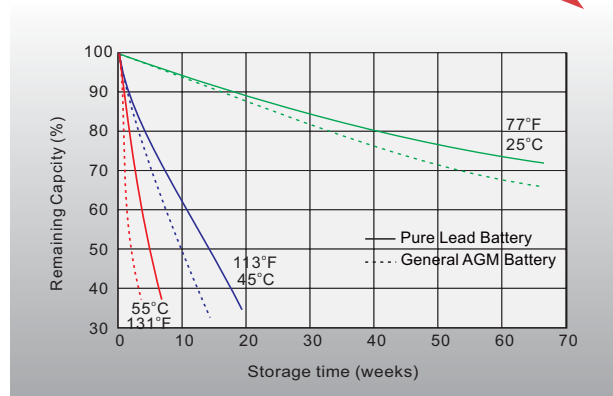
Float Charging Characteristics



Effects of Temperature on Discharging Time



Self-discharge Characteristics



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Publication No.: LB-PLX12-700FT(A)-PD-EN-V3.1-201904