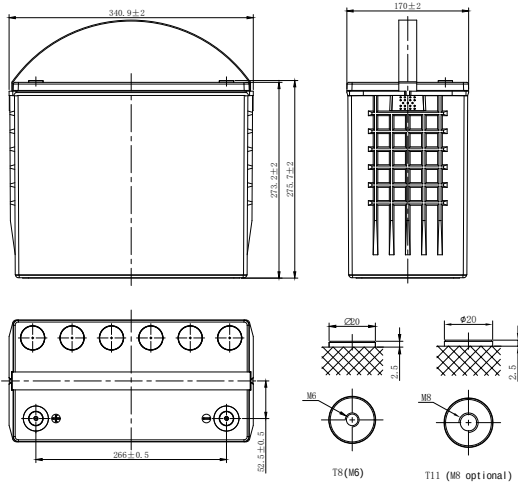


PLX-PURE LEAD HIGH RATE

PLX12-620 (12V620W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	620W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	145Ah
Dimension	Length	340.9mm(13.4inches)
	Width	170mm(6.69inches)
	Container Height	273.2mm(10.8inches)
	Total Height	275.7mm(10.9inches)
Approx Weight	44kg(97.0lbs)	
Terminal	M6(M8 optional)	
Container Material	PC-ABS (UL94 V-0)	
Short-circuit current	3190A	
Internal Resistance (25°C)	Approx 3.5 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-40~65°C (-40~149°F)
	Charge	-20~54°C (-4~129°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Float Charge	Equalization Charge
	2.27±0.02V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-4mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	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.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	367.1	320.9	260.7	232.1	182.1	133.7	105.4	72.9	56.9	38.7	29.7	24.3	17.2	14.3	7.18
1.80V/cell	410.6	342.5	280.2	245.8	185.2	139.0	110.4	75.7	58.9	40.0	30.4	25.1	17.6	14.5	7.31
1.75V/cell	465.4	381.7	307.2	265.0	198.9	145.0	114.1	78.8	61.2	41.7	31.5	26.2	18.1	14.6	7.33
1.70V/cell	507.7	418.5	321.7	274.5	204.8	149.5	115.3	80.1	62.6	42.5	32.5	26.8	18.3	14.8	7.40
1.67V/cell	560.2	450.9	338.6	282.2	211.4	157.2	121.4	83.8	65.4	44.7	33.7	28.1	18.4	14.9	7.46
1.60V/cell	614.1	466.6	353.9	291.4	220.6	163.1	122.1	85.6	67.2	46.0	35.1	29.0	18.6	15.0	7.54
Constant Power Discharge (Watts/cell) at 25°C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	727.7	606.1	495.8	447.0	351.4	258.6	203.9	143.3	113.3	77.1	59.4	49.0	33.3	26.9	14.1
1.80V/cell	771.2	630.4	529.1	466.7	353.9	265.6	208.6	146.5	115.7	78.8	59.9	50.0	34.3	27.1	14.2
1.75V/cell	877.2	718.3	575.7	499.8	376.1	274.8	215.2	150.5	118.8	80.8	61.1	50.9	34.5	27.7	14.3
1.70V/cell	929.8	769.5	596.8	512.1	382.2	279.1	218.1	152.9	119.9	81.4	62.1	51.3	34.6	27.9	14.4
1.67V/cell	1001.8	808.9	620.0	521.2	393.1	291.7	227.3	158.4	124.2	84.7	63.9	51.9	35.0	28.0	14.5
1.60V/cell	1069.9	836.3	639.3	529.0	403.2	297.6	229.3	160.3	125.5	85.7	64.5	52.0	35.1	28.1	14.6

PLX-PURE LEAD HIGH RATE

PLX12-620 (12V620W)



APPLICATIONS

- UPS
- Emergency lighting
- Emergency Power supply
- Electric starting
- Power tools

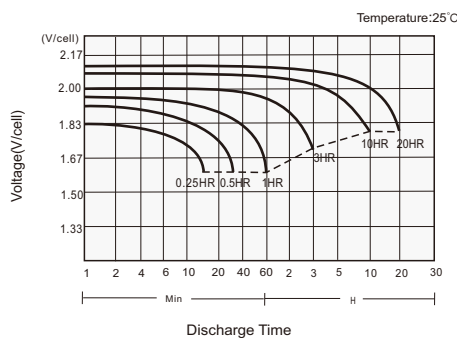
GENERAL FEATURES

- 15 years design life (25°C)
- Utilizes pure lead technology, thin positive grids and unique manufacturing process to maximize corrosion resistance and service life while increasing energy density
- Specifically designed for high-rate discharge applications
- Wide Wpc range of front and top terminal monoblocs
- UL 94 V-0 Case and cover heat sealed and 100% tested to prevent leaks

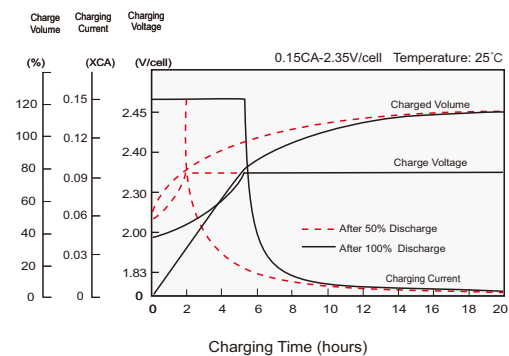
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in Leoch® IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

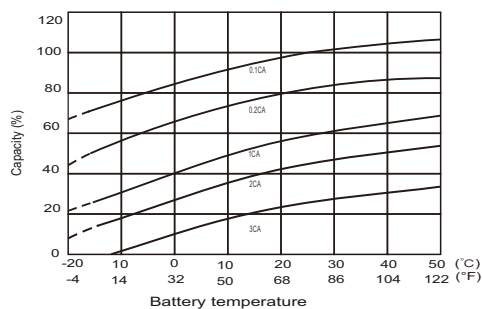
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

