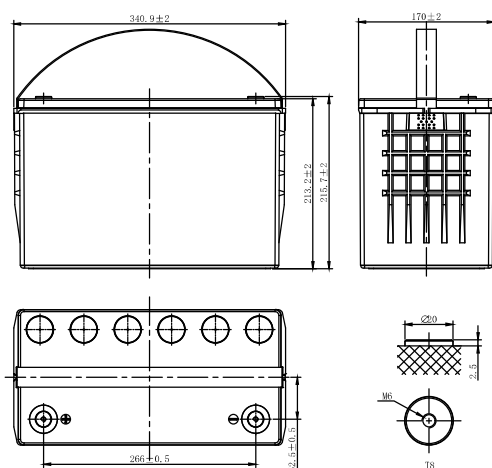


PLX-PURE LEAD HIGH RATE

PLX12-420 (12V420W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	420W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	100Ah
Dimension	Length	340.9mm(13.4inches)
	Width	170mm(6.69inches)
	Container Height	213.2mm(8.39inches)
	Total Height	215.7mm(8.49inches)
Approx Weight		33.8kg(74.5lbs)
Terminal		T8(M6)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		2200A
Internal Resistance (25°C)		Approx 3.7 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	312.0	246.0	197.6	161.4	132.1	96.1	73.1	52.0	41.5	29.4	22.3	18.0	11.5	9.60	4.94
1.80V/cell	336.0	258.0	205.0	172.0	138.0	100.0	76.0	53.9	43.0	30.3	23.0	19.5	12.8	10.0	5.08
1.75V/cell	360.0	285.0	229.0	190.0	149.0	105.0	79.9	56.0	44.2	30.9	23.4	20.0	13.0	10.7	5.20
1.70V/cell	384.0	315.0	246.0	202.0	153.0	108.0	82.0	57.1	44.8	31.5	23.9	20.2	13.2	10.8	5.26
1.67V/cell	408.0	337.0	261.0	212.0	156.0	110.0	84.0	58.1	45.3	32.0	24.3	20.4	13.4	10.9	5.30
1.60V/cell	432.0	355.0	270.0	216.0	160.0	113.0	86.0	59.1	45.8	32.3	24.5	20.6	13.5	11.0	5.33
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	611.8	478.0	390.4	334.6	262.9	196.5	149.4	104.2	81.7	58.5	44.6	36.3	23.6	19.5	10.3
1.80V/cell	653.3	498.7	403.2	345.5	268.8	199.0	150.8	106.3	84.2	59.7	45.5	37.5	24.2	19.7	10.5
1.75V/cell	727.5	545.7	436.3	367.7	281.0	205.5	155.3	110.0	87.5	61.2	46.6	38.7	24.7	20.0	10.7
1.70V/cell	798.2	576.8	450.7	376.3	284.8	208.5	157.5	111.3	88.3	61.8	47.1	39.0	25.2	20.3	10.8
1.67V/cell	855.7	605.0	460.0	385.2	290.3	212.3	160.0	112.7	89.2	62.7	47.5	39.5	25.5	20.7	10.8
1.60V/cell	905.3	623.3	473.0	391.5	294.7	215.5	161.7	113.8	90.0	63.2	48.1	40.0	25.7	21.0	10.9

PLX-PURE LEAD HIGH RATE

PLX12-420 (12V420W)



APPLICATIONS

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

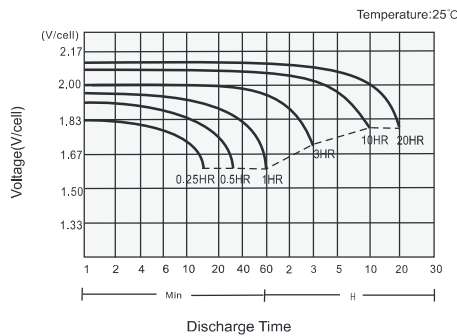
GENERAL FEATURES

- 15 years design life (25°C)
- Utilizes TPPL 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

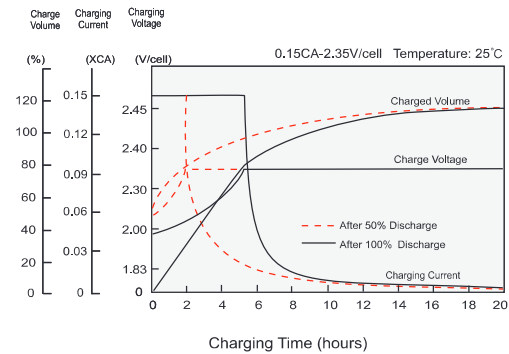
STANDARDS

- 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

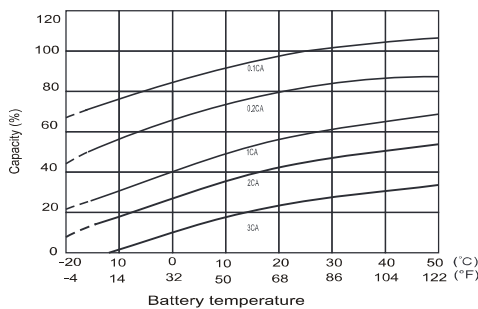
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

