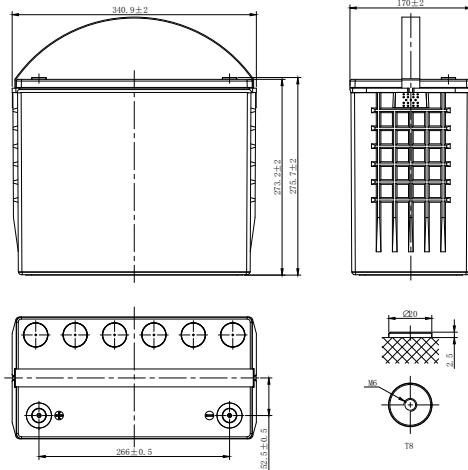


PLX-PURE LEAD HIGH RATE

PLX12-540 (12V540W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	540W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	132Ah
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		T8(M6)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		2904A
Internal Resistance (25°C)		Approx 3.6 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	314.3	260.8	226.8	202.5	156.6	116.6	89.0	62.9	50.0	33.6	25.8	21.1	14.2	12.8	7.05
1.80V/cell	340.4	281.6	242.5	212.0	163.5	120.5	91.4	64.6	51.3	34.4	26.4	21.6	14.5	13.2	7.20
1.75V/cell	396.1	317.2	266.7	229.9	173.1	126.1	95.3	66.7	52.6	35.8	27.5	22.6	14.8	13.5	7.34
1.70V/cell	429.1	352.7	278.8	238.0	177.9	129.6	97.9	68.5	53.9	36.6	28.1	23.0	15.2	13.8	7.47
1.67V/cell	469.2	368.8	294.5	244.1	184.1	136.4	102.8	71.6	56.2	38.4	29.5	24.2	15.5	14.2	7.54
1.60V/cell	512.7	384.4	303.0	253.0	192.0	141.1	105.9	73.7	57.8	39.5	30.4	24.9	15.7	14.3	7.70
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	619.5	519.5	451.7	403.3	311.9	232.3	177.2	125.2	99.5	66.9	51.3	41.9	28.2	25.5	14.0
1.80V/cell	663.2	553.8	476.8	417.0	321.5	237.0	179.7	127.0	100.9	67.7	51.9	42.5	28.5	26.0	14.2
1.75V/cell	762.8	615.8	517.8	446.3	336.2	244.8	185.0	129.6	102.2	69.5	53.5	43.8	28.8	26.2	14.2
1.70V/cell	816.3	676.0	534.3	456.2	341.0	248.3	187.7	131.3	103.3	70.2	53.9	44.2	29.1	26.4	14.3
1.67V/cell	886.1	701.3	560.0	464.2	350.2	259.3	195.5	136.2	106.8	73.0	56.1	46.0	29.5	27.0	14.3
1.60V/cell	951.0	717.5	565.7	472.3	358.3	263.3	197.7	137.6	107.8	73.7	56.7	46.5	29.3	26.7	14.4

PLX-PURE LEAD HIGH RATE

PLX12-540 (12V540W)



APPLICATIONS

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

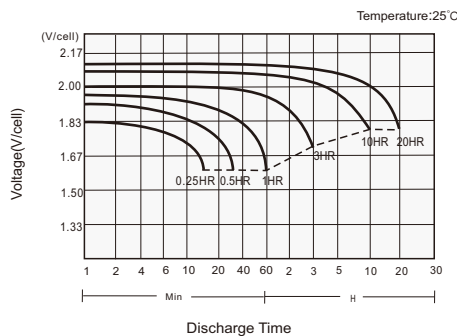
GENERAL FEATURES

- 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

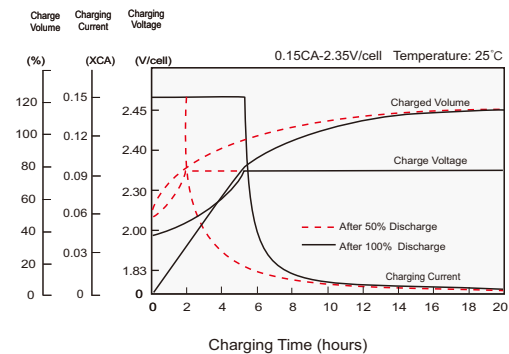
STANDARDS

- 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

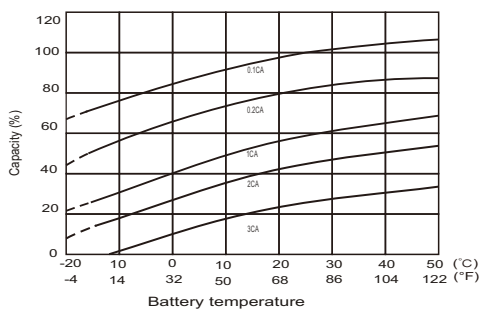
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

