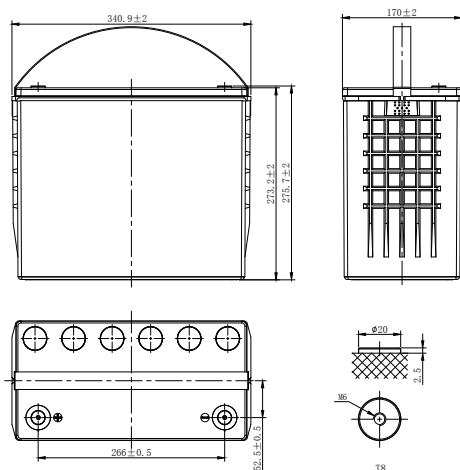


PLX-PURE LEAD HIGH RATE

PLX12-540 (12V540W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	540W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	135Ah
Dimension	Length	340.9mm(13.4inches)
	Width	170mm(6.69inches)
	Container Height	273.2mm(10.8inches)
	Total Height	275.7mm(10.9inches)
Approx Weight	43.5kg(95.9lbs)	
Terminal	M6/M8	
Container Material	PC-ABS (UL94 V-0)	
Short-circuit current	2970A	
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	346.1	288.8	240.9	210.8	161.6	120.0	93.6	65.2	51.2	35.8	27.9	23.8	16.1	12.9	6.49
1.80V/cell	375.8	294.6	246.3	215.7	166.0	123.0	96.2	66.8	52.2	37.4	28.8	24.1	16.6	13.5	6.79
1.75V/cell	406.3	328.0	273.5	234.6	176.5	129.2	100.1	69.3	54.3	38.3	29.5	24.5	16.8	13.6	6.84
1.70V/cell	436.5	365.1	287.2	248.7	183.7	132.4	102.5	71.0	54.8	39.1	30.1	25.0	16.9	13.8	6.90
1.67V/cell	486.0	379.0	310.3	255.4	189.2	137.1	105.0	72.5	56.8	39.5	30.5	25.5	17.2	13.9	6.96
1.60V/cell	526.3	391.8	319.1	259.8	192.1	141.1	107.7	74.2	57.2	40.0	30.8	25.8	17.4	14.0	7.04
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	655.7	496.8	464.6	408.1	318.9	232.7	182.4	127.1	99.7	72.4	56.1	47.9	32.9	26.4	13.3
1.80V/cell	729.5	564.6	477.6	417.2	330.1	237.3	184.9	128.8	101.1	74.9	57.9	49.8	33.8	24.6	13.5
1.75V/cell	781.4	612.8	519.6	446.5	335.8	245.1	190.5	130.7	104.7	76.3	59.1	50.5	34.1	27.3	13.6
1.70V/cell	824.9	654.5	536.2	457.7	346.3	249.3	192.5	131.5	105.9	77.2	59.9	50.8	34.2	27.5	13.7
1.67V/cell	885.6	682.7	560.0	464.4	350.4	260.2	201.0	135.3	109.3	77.9	60.0	51.1	34.4	27.6	13.8
1.60V/cell	904.9	689.1	575.4	473.2	359.2	264.4	202.9	137.1	110.3	78.1	60.1	51.2	34.5	27.8	13.9

PLX-PURE LEAD HIGH RATE

PLX12-540 (12V540W)



APPLICATIONS

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

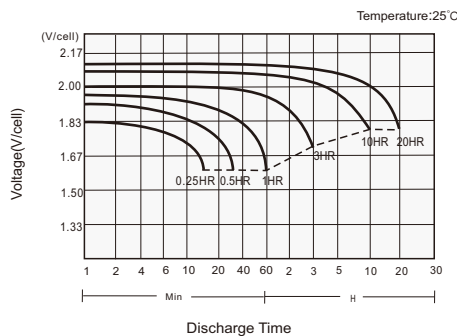
GENERAL FEATURES

- 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

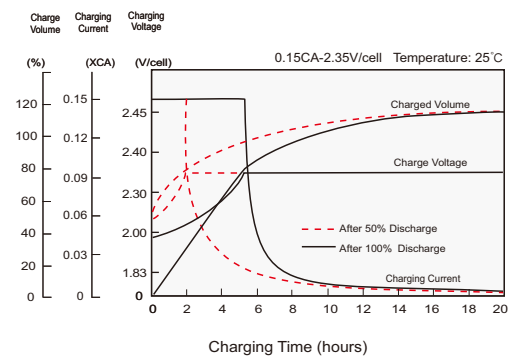
STANDARDS

- 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

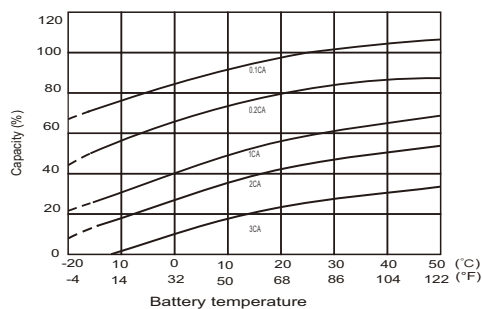
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

