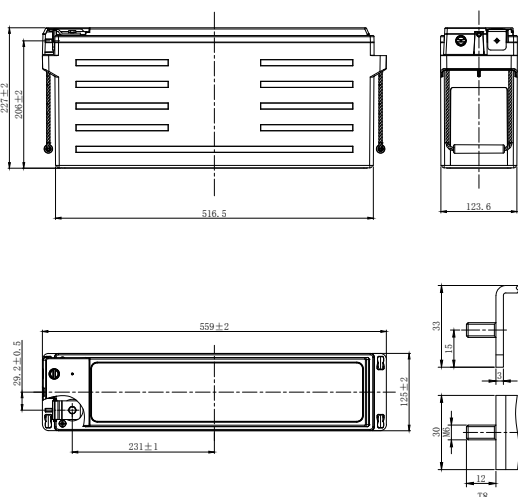


# PLX-PURE LEAD HIGH RATE

## PLX12-450FT(A) (12V450W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	450W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	110Ah
Dimension	Length	559mm (22.0inches)
	Width	125mm (4.92inches)
	Container Height	227mm (8.94inches)
	Total Height	227mm (8.94inches)
Approx Weight	37.7kg (83.1lbs)	
Terminal	T8(M6)	
Container Material	PC-ABS (UL94 V-0)	
Short-circuit current	2420A	
Internal Resistance (25°C)	Approx 4 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)	Standby Use	Equalization Use
	2.27±0.02V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	
	100%	
	0°C (32°F)	
Self Discharge	PLX series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the timeinterval 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	309.3	238.4	186.7	160.2	123.2	95.7	78.1	56.6	45.9	33.0	25.8	21.3	14.0	10.8	6.08
1.80V/cell	348.8	263.4	203.0	172.8	132.9	101.1	81.8	58.9	47.4	33.8	26.4	21.7	14.3	11.0	6.28
1.75V/cell	388.6	287.3	218.7	184.6	140.6	105.8	85.2	60.9	48.8	34.6	26.9	22.0	14.5	11.9	6.41
1.70V/cell	425.6	297.6	232.4	194.8	146.4	109.6	87.9	62.4	49.7	35.2	27.3	22.4	14.7	12.0	6.53
1.67V/cell	483.3	310.7	245.6	200.9	148.6	111.6	89.2	63.3	50.3	35.5	27.6	22.7	14.8	12.1	6.53
1.60V/cell	532.4	331.4	261.1	209.2	151.8	114.7	91.2	64.5	51.2	36.1	28.0	22.8	15.0	12.2	6.63
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	579.8	457.7	362.3	311.7	241.4	189.2	154.9	112.8	91.7	66.0	51.8	42.9	28.4	23.3	12.4
1.80V/cell	646.6	500.5	391.5	334.1	258.8	198.6	161.4	116.6	94.2	67.4	52.7	43.4	28.8	23.6	12.8
1.75V/cell	711.4	539.7	417.5	353.7	271.6	206.3	166.8	119.8	96.3	68.6	53.5	44.0	29.1	24.0	13.0
1.70V/cell	772.0	551.9	439.3	369.7	280.3	212.3	171.0	122.3	97.9	69.5	54.1	44.6	29.5	24.2	13.2
1.67V/cell	805.6	568.6	450.0	377.3	285.7	215.1	172.7	123.3	98.6	69.9	54.5	44.9	29.6	24.3	13.2
1.60V/cell	872.8	597.8	466.9	388.7	292.2	218.7	175.1	124.8	99.6	70.6	55.0	45.2	29.8	24.5	13.3

# PLX-PURE LEAD HIGH RATE

## PLX12-450FT(A) (12V450W)



### APPLICATIONS

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

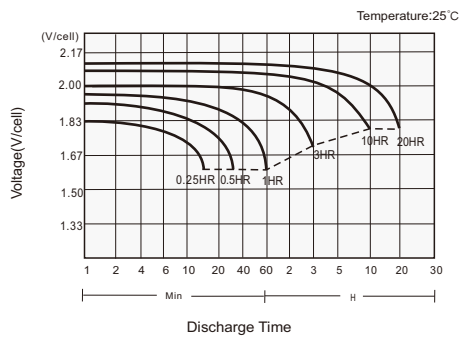
### GENERAL FEATURES

- 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

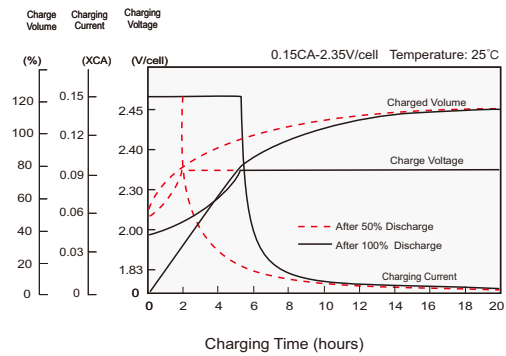
### STANDARDS

- 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

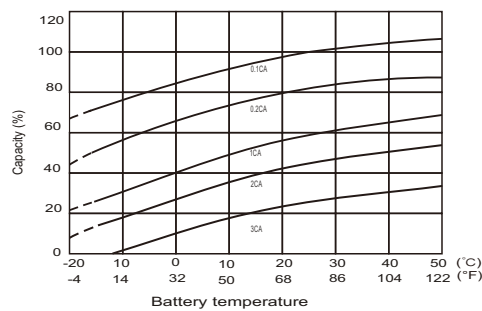
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

