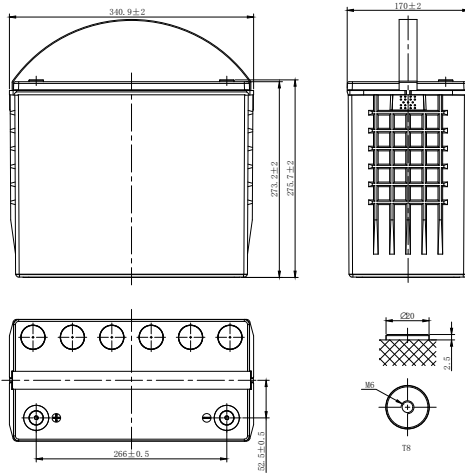


# HXP-PURE LEAD HIGH RATE

## HXP12-540 (12V540W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	550W/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	T8(M6)	
Container Material	PC-ABS (UL94 V-0)	
Short-circuit current	2970.0A	
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)	Standby Use	Equalization Use
	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	HXP 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	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	282.7	229.7	197.9	173.4	139.3	106.0	87.0	48.9	35.0	28.3	23.8	20.3	16.0	13.1	7.02
1.80V/cell	327.4	254.0	218.0	192.0	151.7	114.1	92.1	51.0	36.5	29.4	24.6	20.7	16.5	13.5	7.09
1.75V/cell	381.3	284.1	241.7	207.9	162.8	121.1	97.3	53.0	37.8	30.0	25.1	21.2	16.9	13.8	7.22
1.70V/cell	425.9	312.2	265.5	225.9	174.3	127.9	102.0	55.0	38.7	30.7	25.7	21.6	17.0	14.0	7.36
1.67V/cell	466.9	344.0	289.1	240.4	181.8	133.3	105.6	56.7	39.6	31.4	26.2	22.1	17.2	14.3	7.43
1.60V/cell	502.7	372.2	305.0	253.4	191.1	138.9	109.5	58.1	40.5	31.7	26.7	22.5	17.4	14.4	7.49
Constant Power Discharge (Watts/cell) at 25°C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	559.2	441.9	383.5	339.5	273.0	209.1	172.5	99.1	70.7	57.3	48.0	40.9	32.3	26.4	14.0
1.80V/cell	640.0	484.6	418.6	373.2	295.0	223.2	181.3	101.8	72.7	58.5	49.0	41.2	32.9	26.9	14.1
1.75V/cell	738.5	534.9	459.8	400.9	314.2	235.1	190.2	104.5	74.4	59.1	49.4	41.6	33.2	27.1	14.2
1.70V/cell	816.8	582.5	500.2	432.4	334.1	246.5	197.9	107.0	75.2	59.6	49.8	41.9	33.3	27.2	14.3
1.67V/cell	886.1	635.1	550.0	456.6	346.4	255.5	203.8	109.4	76.3	60.5	50.4	42.4	33.4	27.5	14.3
1.60V/cell	951.0	672.8	559.7	471.1	356.4	261.2	207.5	109.9	76.6	60.8	50.5	42.5	33.6	27.6	14.3

# HXP-PURE LEAD HIGH RATE

## HXP12-540 (12V540W)



### APPLICATIONS

- Data Centre
- UPS high power backup supply
- Emergency power supply
- Starting system
- Power tools

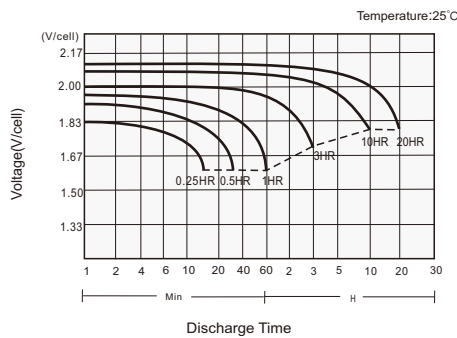
### GENERAL FEATURES

- 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

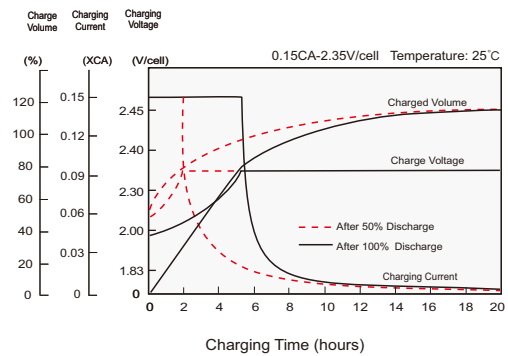
### STANDARDS

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

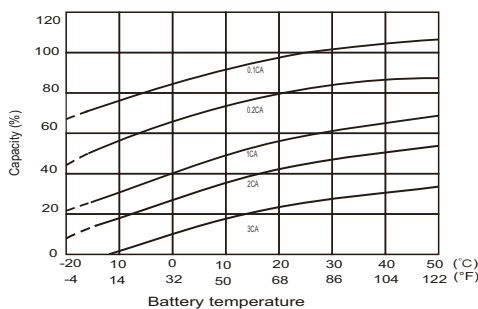
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

