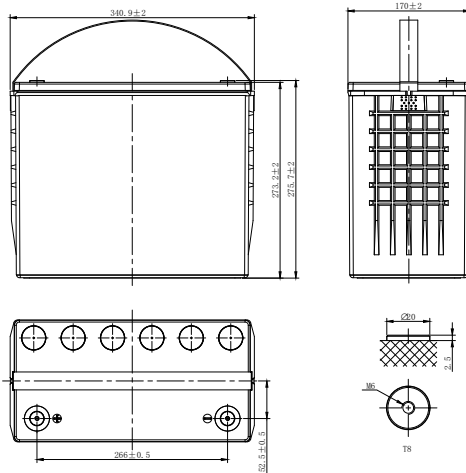


# HXP-PURE LEAD HIGH RATE

## 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	289.2	232.9	200.1	175.0	140.4	106.7	87.5	49.3	35.1	28.5	23.9	20.3	16.1	13.1	7.05
1.80V/cell	333.9	257.2	220.2	193.6	152.8	114.8	92.6	51.2	36.6	29.5	24.7	20.8	16.6	13.5	7.11
1.75V/cell	387.8	287.3	243.9	209.5	163.9	121.8	97.8	53.3	38.0	30.2	25.2	21.2	16.9	13.8	7.25
1.70V/cell	432.4	315.4	267.7	227.5	175.4	128.6	102.5	55.3	38.9	30.8	25.8	21.7	17.1	14.1	7.38
1.67V/cell	473.4	347.2	291.3	242.0	182.9	134.0	106.1	57.0	39.8	31.5	26.3	22.1	17.3	14.4	7.45
1.60V/cell	509.2	375.4	307.2	255.0	192.2	139.6	110.0	58.3	40.7	31.9	26.8	22.6	17.4	14.5	7.52
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	448.4	388.9	343.5	275.7	210.9	173.8	99.8	71.2	57.6	48.2	41.1	32.5	26.5	14.0
1.80V/cell	640.0	491.0	423.9	377.2	297.7	225.0	182.6	102.5	73.2	58.9	49.2	41.5	33.1	27.0	14.2
1.75V/cell	738.5	541.2	465.0	404.8	316.8	236.8	191.5	105.1	74.9	59.4	49.6	41.8	33.3	27.2	14.2
1.70V/cell	816.8	588.7	505.4	434.7	336.7	248.2	199.2	107.6	75.6	60.0	50.0	42.1	33.5	27.3	14.3
1.67V/cell	886.1	641.3	550.0	456.7	349.0	257.2	205.1	110.0	76.8	60.8	50.7	42.7	33.5	27.6	14.3
1.60V/cell	951.0	678.8	564.7	471.7	358.9	262.9	208.8	110.5	77.0	61.1	50.8	42.7	33.7	27.7	14.4

# HXP-PURE LEAD HIGH RATE

## HXP12-540 (12V540W)



### APPLICATIONS

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

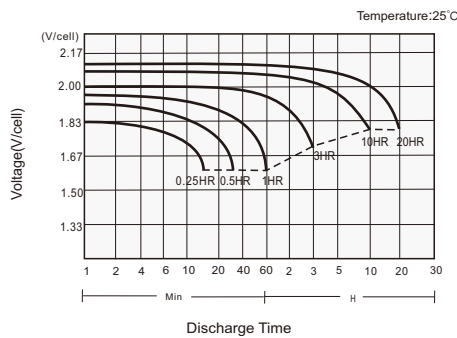
### GENERAL FEATURES

- 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

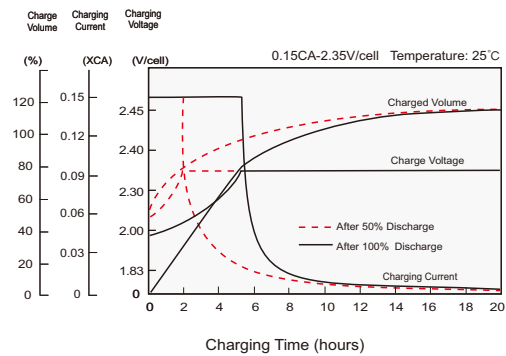
### STANDARDS

- 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

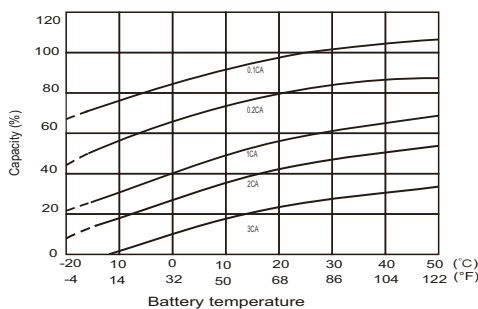
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

