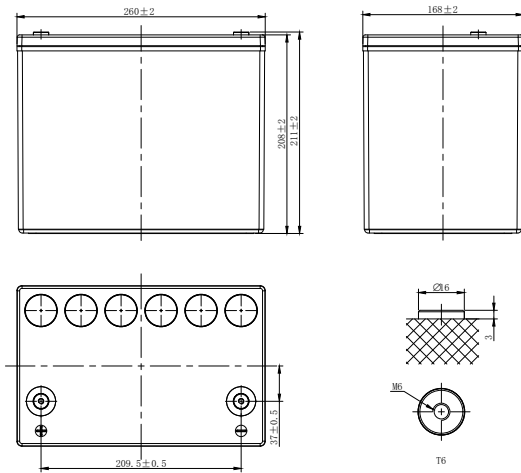


HXP-PURE LEAD HIGH RATE

HXP12-300 (12V300W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	312.4W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	80Ah
Dimension	Length	260mm (10.2inches)
	Width	168mm (6.61inches)
	Container Height	208mm (8.19inches)
	Total Height	211mm (8.31inches)
Approx Weight	24.9kg (54.9lbs)	
Terminal	T6(M6)	
Container Material	PC-ABS (UL94 V-0)	
Short-circuit current	1760.0A	
Internal Resistance (25°C)	Approx 4.5 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	172.8	126.9	118.4	105.6	78.4	61.9	51.2	29.1	20.7	16.2	13.5	11.6	9.19	7.90	4.02
1.80V/cell	201.6	141.6	130.6	115.2	83.2	64.0	52.9	30.0	21.4	16.7	13.9	12.0	9.46	8.00	4.10
1.75V/cell	232.3	161.8	142.4	122.4	86.9	66.1	54.3	30.9	21.9	17.1	14.2	12.3	9.66	8.12	4.17
1.70V/cell	257.3	176.6	152.3	129.6	91.7	69.0	55.9	31.4	22.4	17.6	14.6	12.5	9.82	8.25	4.24
1.67V/cell	288.0	194.4	163.5	136.8	95.8	71.3	57.5	32.0	22.8	17.8	14.8	12.6	9.99	8.36	4.31
1.60V/cell	316.8	211.2	173.1	145.2	99.8	74.7	58.8	32.6	23.1	18.2	15.1	12.9	10.2	8.43	4.36
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	353.7	262.9	239.0	212.7	157.7	124.5	102.1	58.4	41.9	32.9	27.4	23.7	18.8	15.8	8.30
1.80V/cell	405.9	287.9	259.9	228.9	165.2	128.0	104.2	59.9	42.9	33.7	28.1	24.3	19.3	16.1	8.42
1.75V/cell	460.4	323.4	279.6	240.0	169.3	130.5	105.6	61.3	43.7	34.3	28.6	24.7	19.6	16.3	8.53
1.70V/cell	502.3	347.8	294.4	250.7	176.6	134.9	107.3	61.9	44.4	34.9	29.1	25.0	19.8	16.5	8.61
1.67V/cell	553.2	378.8	312.4	262.4	185.6	137.9	109.5	62.7	44.9	35.3	29.4	25.2	20.0	16.7	8.72
1.60V/cell	603.9	403.2	327.2	273.3	188.2	141.4	110.5	63.3	45.1	35.7	29.7	25.5	20.2	16.8	8.73

HXP-PURE LEAD HIGH RATE

HXP12-300 (12V300W)



APPLICATIONS

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

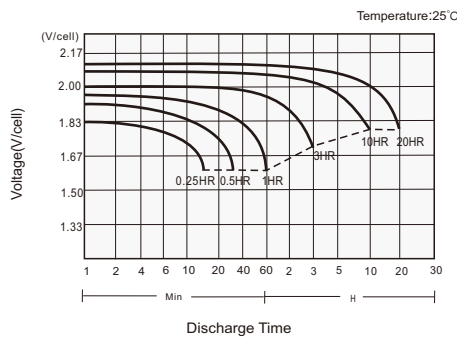
GENERAL FEATURES

- 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

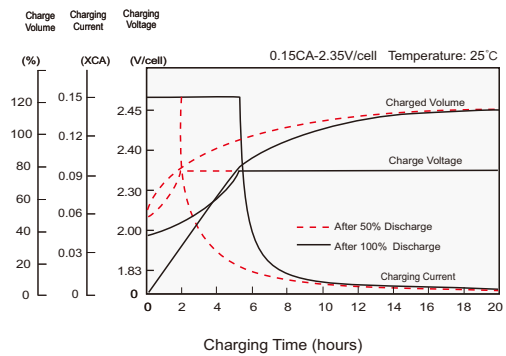
STANDARDS

- 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

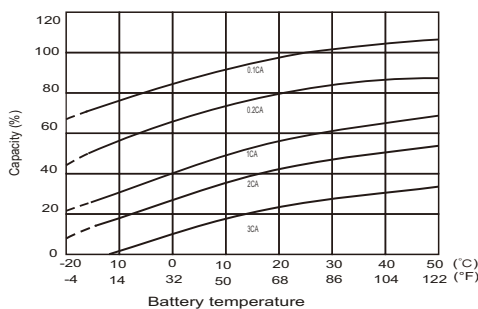
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

