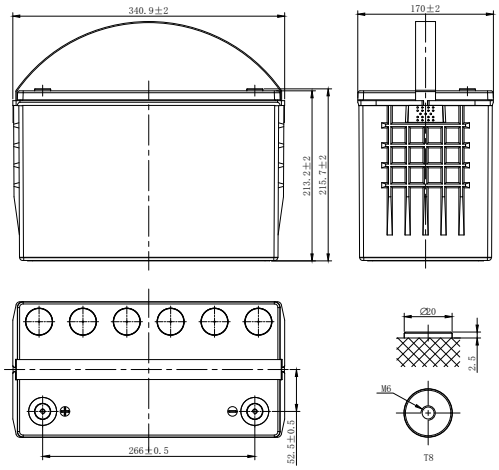
HXP-PURE LEAD HIGH RATE

HXP12-400 (12V400W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	422W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	100Ah
Dimension	Length	340.9mm (13.4inches)
	Width	170mm (6.69inches)
	Container Height	213.2mm (8.39inches)
	Total Height	215.7mm (8.49inches)
Approx Weight		33.2kg (73.2lbs)
Terminal		T8(M6)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		2200.0A
Internal Resistance (25℃)		Approx 3.7 mΩ (Fully charged)
Operating Temp. Range	Discharge	-40~65℃ (-40~149°F)
	Charge	-20~54℃ (-4~129°F)
	Storage	-20~50℃ (-4~122°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.3C
Charge voltage (25℃)	Standby Use	Equalization Use
	2.27±0.02V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-4mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	25℃ (77°F)	100%
	0℃ (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	252.0	193.8	168.2	139.3	107.2	78.0	58.4	33.8	25.0	20.0	16.8	14.6	11.4	9.60	4.94
1.80V/cell	299.6	220.9	186.4	152.0	114.8	82.3	61.5	35.2	26.0	20.8	17.5	15.0	11.7	10.0	5.08
1.75V/cell	337.0	243.0	200.9	161.7	121.8	86.1	65.1	36.5	26.8	21.4	17.9	15.4	12.0	10.1	5.20
1.70V/cell	368.4	258.7	211.8	169.6	126.7	89.8	67.8	37.9	27.6	21.9	18.2	15.7	12.2	10.2	5.26
1.67V/cell	403.0	274.3	222.6	171.8	129.4	91.1	69.5	39.0	28.4	22.5	18.7	16.1	12.5	10.2	5.30
1.60V/cell	422.4	285.9	229.4	181.8	133.8	94.1	72.4	39.7	28.9	22.8	18.9	16.3	12.6	10.3	5.33

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	493.3	379.1	330.9	275.3	213.1	155.8	117.0	68.1	50.4	40.6	34.2	29.7	23.4	19.3	10.2
1.80V/cell	580.1	427.7	363.0	297.7	226.2	163.0	122.4	70.4	52.2	41.9	35.3	30.5	23.9	19.7	10.4
1.75V/cell	645.9	466.1	387.8	313.9	237.8	169.2	128.6	72.5	53.4	42.9	35.9	31.1	24.4	20.0	10.6
1.70V/cell	698.2	490.7	404.0	325.8	244.9	174.9	133.0	74.7	54.8	43.6	36.4	31.4	24.6	20.2	10.7
1.67V/cell	757.4	516.5	422.0	328.0	248.8	176.3	135.4	76.5	55.9	44.5	37.2	32.0	25.0	20.4	10.8
1.60V/cell	801.0	532.5	430.4	343.7	254.8	180.4	139.9	77.1	56.5	44.8	37.3	32.2	25.0	20.5	10.8

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APPLICATIONS

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

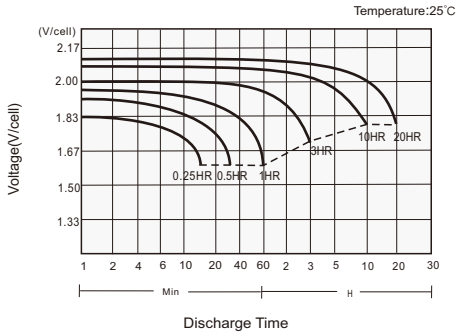
GENERAL FEATURES

- 15 years design life (25°C)
- Utlizes 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

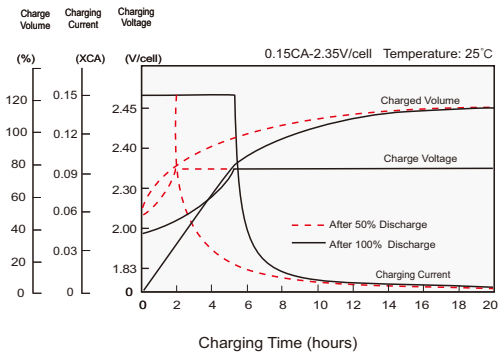
STANDARDS

- 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

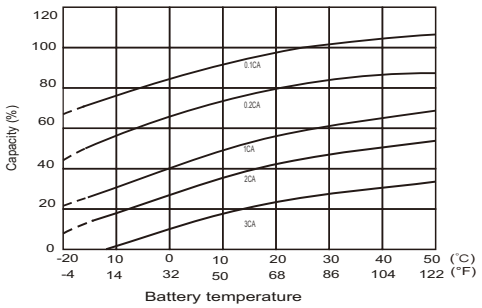
Discharge Characteristics



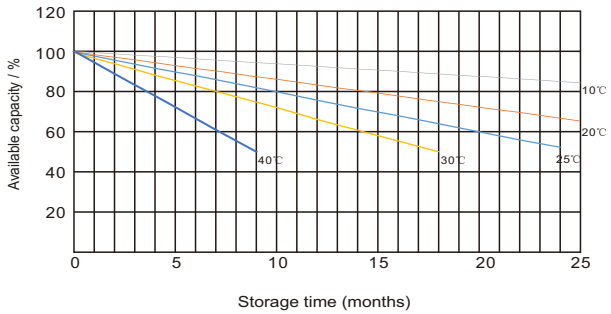
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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