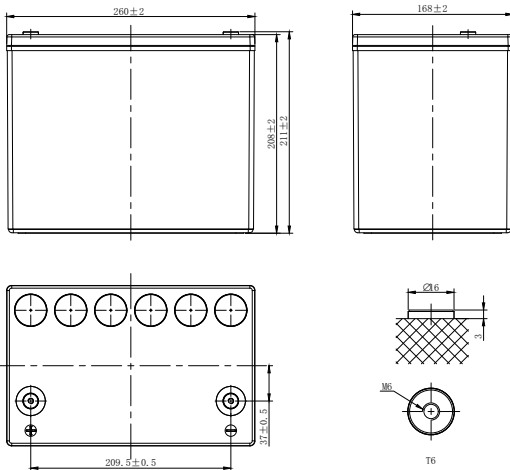


HXP SERIES-ULTRA HIGH RATE

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	25.3kg (55.8lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1760.0A	
Internal Resistance (25°C)	Approx 4.5 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.25C	
Charge voltage (25°C)	Standby Use	Equalization Use
	2.25-2.30V/cell	2.30-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-4mV/cell/°C
	40°C (104°F)	106%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	Self Discharge	≤3% per month at 25°C (77°F)

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	48.6	27.6	19.7	15.4	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	50.3	28.5	20.3	15.9	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	51.6	29.4	20.8	16.2	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	53.1	29.8	21.3	16.7	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	54.6	30.4	21.7	16.9	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	55.9	31.0	21.9	17.3	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	97.0	55.5	39.8	31.3	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	98.9	56.9	40.8	32.0	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	100.3	58.2	41.5	32.6	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	102.0	58.8	42.2	33.2	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	104.1	59.6	42.7	33.5	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	105.0	60.1	42.8	33.9	29.7	25.5	20.2	16.8	8.73

Constant Current Discharge (Amperes) at 20°C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	164.6	120.9	112.8	100.6	74.7	59.0	46.3	26.8	19.1	15.0	13.1	11.3	8.92	7.67	3.90
1.80V/cell	192.0	134.9	124.1	109.7	79.0	61.0	47.8	27.6	19.7	15.4	13.5	11.7	9.18	7.77	3.98
1.75V/cell	221.2	154.1	135.6	116.6	82.8	63.0	49.1	28.5	20.2	15.7	13.8	11.9	9.38	7.88	4.05
1.70V/cell	245.0	168.2	144.7	123.4	87.1	65.7	50.4	28.9	20.7	16.2	14.2	12.1	9.53	8.01	4.12
1.67V/cell	274.3	185.1	155.7	130.3	91.2	67.9	52.0	29.5	21.1	16.4	14.4	12.2	9.70	8.12	4.18
1.60V/cell	301.7	201.1	164.9	138.3	95.0	71.1	53.2	30.1	21.3	16.8	14.7	12.5	9.90	8.18	4.23

Constant Power Discharge (Watts/cell) at 20°C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	336.9	250.4	227.6	202.6	150.2	118.6	92.4	53.9	38.6	30.4	26.6	23.0	18.3	15.3	8.06
1.80V/cell	386.6	274.2	247.5	218.0	157.3	121.9	94.2	55.2	39.6	31.1	27.3	23.6	18.7	15.6	8.17
1.75V/cell	438.5	308.0	266.3	228.6	161.2	124.3	95.5	56.5	40.3	31.7	27.8	24.0	19.0	15.8	8.28
1.70V/cell	478.4	331.2	280.4	238.8	168.2	128.5	97.1	57.1	41.0	32.2	28.3	24.3	19.2	16.0	8.36
1.67V/cell	526.9	360.8	297.5	249.9	176.8	131.3	99.1	57.9	41.5	32.5	28.5	24.5	19.4	16.2	8.47
1.60V/cell	575.1	384.0	311.6	260.3	179.2	134.7	100.0	58.3	41.6	32.9	28.8	24.8	19.6	16.3	8.48

APPLICATIONS

- UPS
- Hospitals and Testing Laboratories
- Emergency Power Supply
- Electric starting
- Telecommunications
- Data Centers

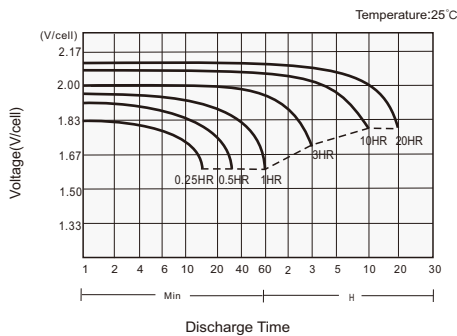
GENERAL FEATURES

- > 12 years design life (25°C)
- Excellent high current performance - optimised for short discharge time
- Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing and extending battery life
- Epoxy-sealed posts eliminate leaks
- Optimal energy density - saves floor space
- Pure Lead

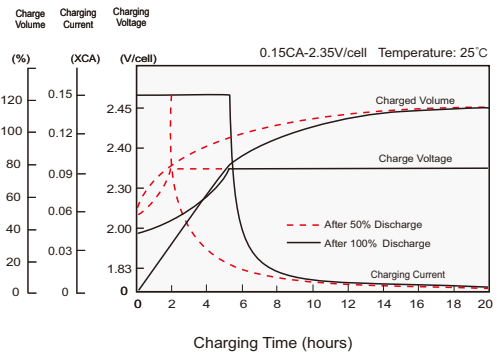
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

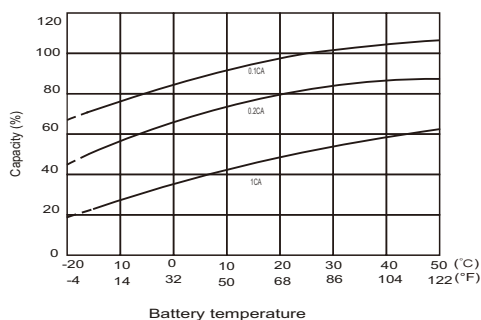
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

