



Marstech

XP Series-Battery

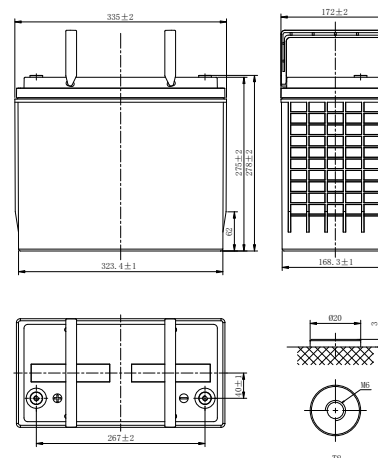
XP12-490 (12V-490W)

Specifications of XP12-490

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	W_{15} , 1.67V/cell	505.7W/cell
Nominal Capacity (25°C)	C_{20} , 1.80V/cell	142Ah
Dimension	Length	335mm (13.2inches)
	Width	172mm (6.77inches)
	Container Height	275mm (10.8inches)
	Total Height	278mm (10.9inches)
Approx Weight		42.6kg (93.9lbs)
Terminal		T8(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3264A
Internal Resistance (25°C)		Approx 3.2 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)



Layout



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	261.7	220.7	194.8	168.9	134.5	103.1	82.1	48.4	35.1	28.0	23.4	20.2	16.0	13.3	6.93
1.80V/cell	310.5	248.5	216.5	183.6	144.4	109.9	87.2	50.6	36.7	28.9	24.1	20.8	16.4	13.6	7.10
1.75V/cell	355.0	282.6	237.2	196.8	152.2	115.5	91.7	52.5	38.0	29.9	24.8	21.4	16.8	13.8	7.26
1.70V/cell	391.7	303.6	253.1	208.7	159.8	120.9	95.6	54.7	38.9	30.5	25.4	21.8	17.1	14.0	7.38
1.67V/cell	426.0	326.6	270.7	220.4	168.3	126.5	99.4	56.6	40.1	31.4	25.9	22.2	17.4	14.2	7.51
1.60V/cell	463.5	354.8	287.3	232.3	176.4	131.3	103.0	58.1	41.1	32.1	26.6	22.7	17.7	14.5	7.63

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	497.8	424.6	377.4	329.0	263.7	203.4	162.9	96.6	70.3	56.2	47.3	41.1	32.7	27.3	14.3
1.80V/cell	583.6	474.1	415.6	355.1	280.9	215.0	171.7	100.2	72.9	57.7	48.3	41.8	33.3	27.7	14.6
1.75V/cell	661.2	532.2	451.5	377.7	293.7	224.2	179.2	103.3	75.0	59.3	49.5	42.9	33.9	28.0	14.8
1.70V/cell	722.4	566.4	476.7	397.6	306.2	233.0	185.4	106.7	76.5	60.3	50.4	43.4	34.3	28.3	15.0
1.67V/cell	777.5	602.9	505.7	416.4	320.5	242.5	191.8	109.9	78.2	61.7	51.1	44.1	34.6	28.6	15.2
1.60V/cell	829.6	641.4	527.2	429.8	329.2	247.0	195.1	110.8	78.8	61.9	51.5	44.3	34.6	28.5	15.2



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XP12-490 (12V-490W)

Applications

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

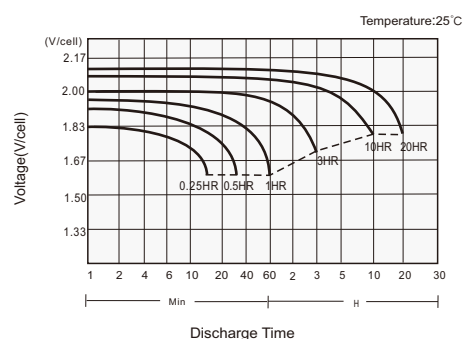
General Features

- 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

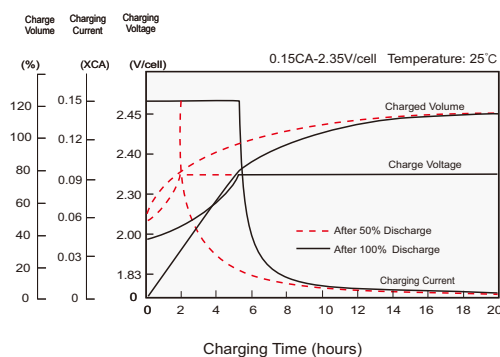
Standards

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

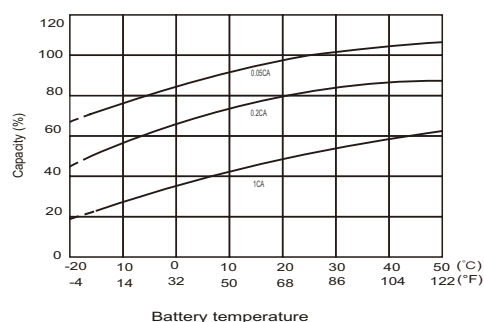
Discharge Characteristics



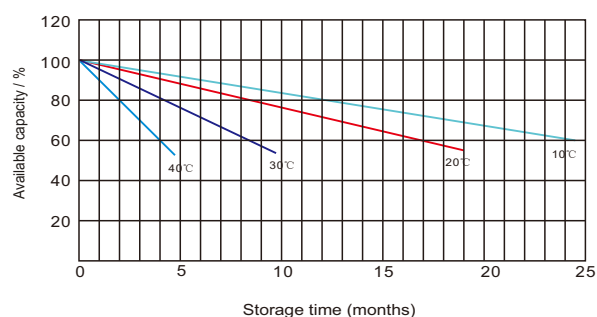
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Sales Office

Head Office in MARSTECH SYSTEMS PTE LTD
Block 24, Sin Ming Lane #05-107 Midview City
Singapore

Manufacture in ANHUI LEOCH POWER SUPPLY CORP
No.1, Yingchun Road, Suixi Economic Development Zone,
Suixi Country, Huaibei City, Anhui Province.
P.R.China

Manufacture in LEOCH ACCUPOWER (M) SDN BHD
Lot 13338 & 2493, Jalan Sukeppi, Kawasan Perindustrian,
Jenjarom 42600 Kuala Langat, Selangor Darul Ehsan.
Malaysia