

Electrozirve 12.8V 100Ah LiFePO4 BATTERY

PRODUCT FEATURES

- High Lifespan: 6000 Cycle and more (see cart)
- Deep Discharge allowed up to %100
- Embedded BMS (Battery Management System)
- Calendar Life > 10 Years
- Excellent Temperature robustness (-20 °C to +60 °C)
- Constant Power during discharge (very low internal resistance)
- Very Low Self Discharge (<3% Per Month)
- Very Low Peukert's Losses (Energy Efficiency >98%)
- BMS With Built-in Bluetooth
- About 50% Lighter And 40% Smaller Than Equivalent Lead-AGM Battery With Same Usable



PRODUCT APPLICATIONS

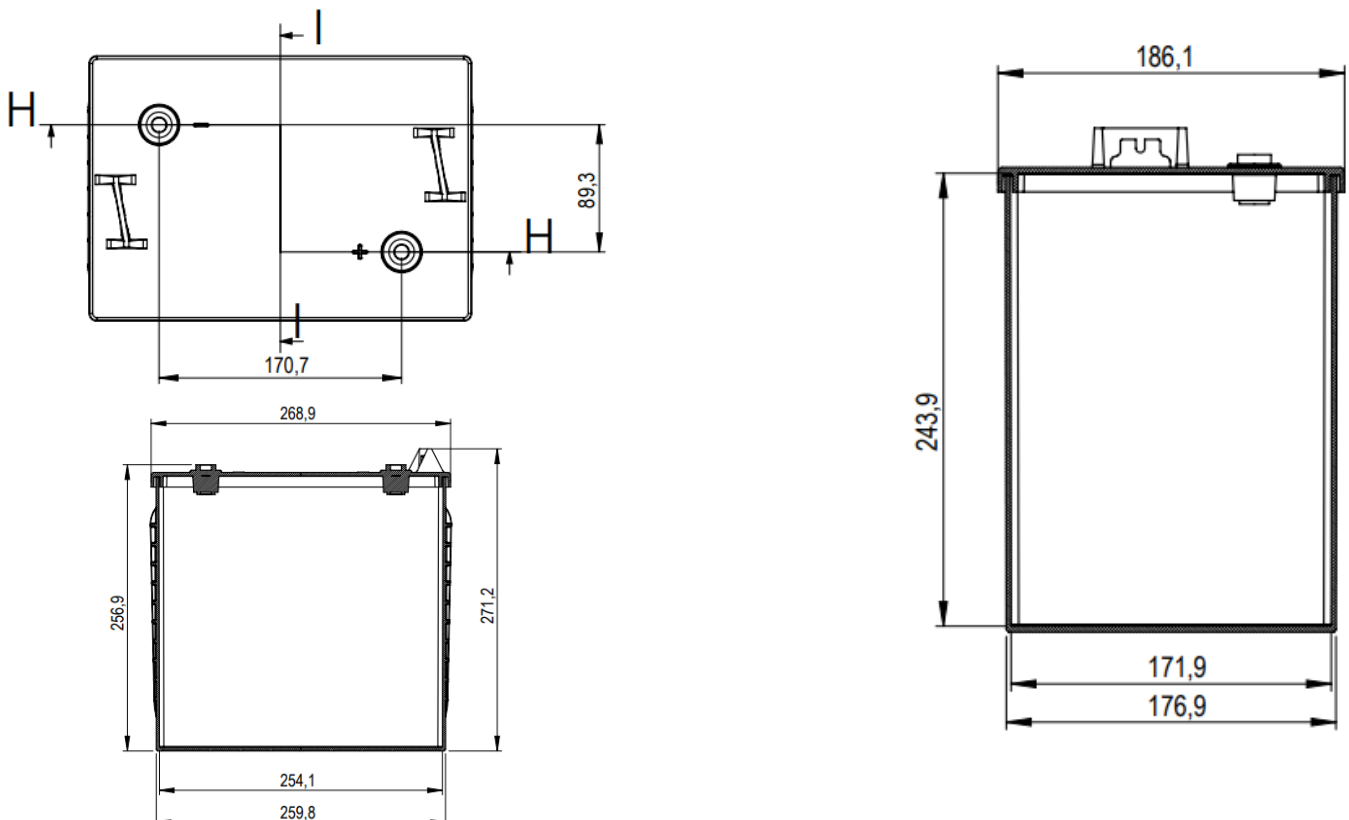
- Electrical Vehicules and Unitiles
- Robotic and AGVs
- Solar and Wind Energy Storage
- Marine
- Street Lightning
- CCTV and Security Camera
- UPS, Electric back-up
- Telecom
- Medical Equipments



TECHNICAL SPECIFICATIONS

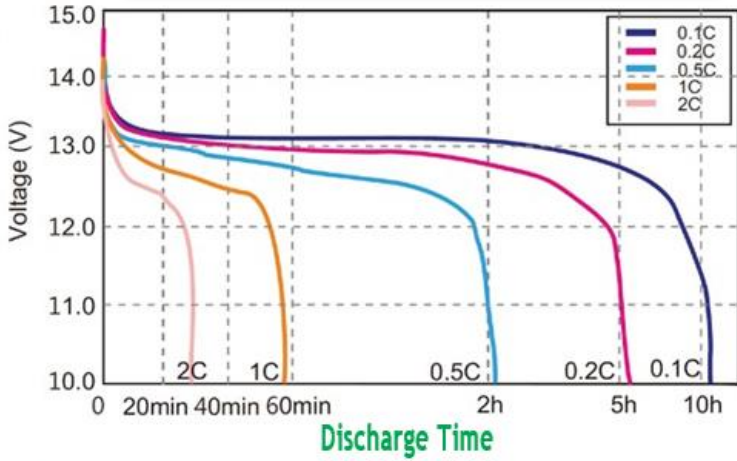
Electric	Nominal Voltage	12.8 V
	Nominal Capacity	100 Ah
	Stored Power	1280 Wh
	Internal Resistance	$\leq 50\text{m}\Omega$
	Cycles	>6000 cycles
	Self Discharge	< 3% per month
	Energy Efficiency	> 98%
Standard Charge	Charge Voltage	14.4 V \pm 0.2V
	Charge Mode	CC/CV : Constant Current / Constant Voltage
	Continuous Charge Current / Max. Charge Current	50 A / 100A
	BMS Charge Cut-off Voltage	14.8 V \pm 0.1V
Standard Discharge	Instant Peak Discharge Current	150 A \pm 30 A (max 100mS)
	Continuous Discharge Current	100 A (1.6 kW)
	Max. Discharge Current (<30s)	100 A (1.6 kW)
	BMS Discharge Cut-off Voltage	10 V
Environment	Charge Temperature Range	0°C to +60°C
	Discharge Temperature Range	-20°C to +60°C
	Storage Temperature	0°C to +50°C @%60 \pm 25 Relative Humidity
	IP Protection Level	IP 65
Mechanical	Type Of Cells	Prismatic
	Casing Material	ABS
	Dimensions	L : 260mm x W : 168mm x H : 212 mm
	Weight	11.5 kg
	Terminal	M8

PRODUCT DIMENSIONS

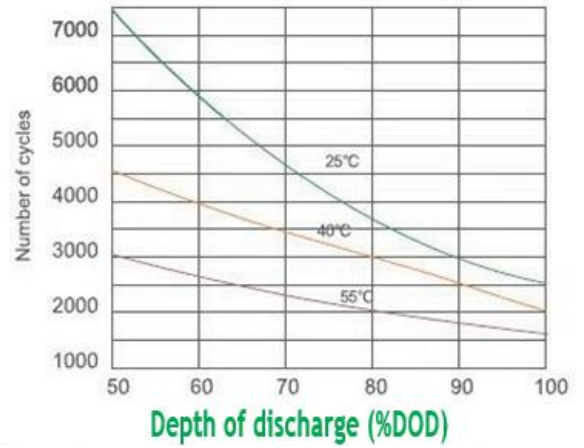


CHARTS AND CURVES

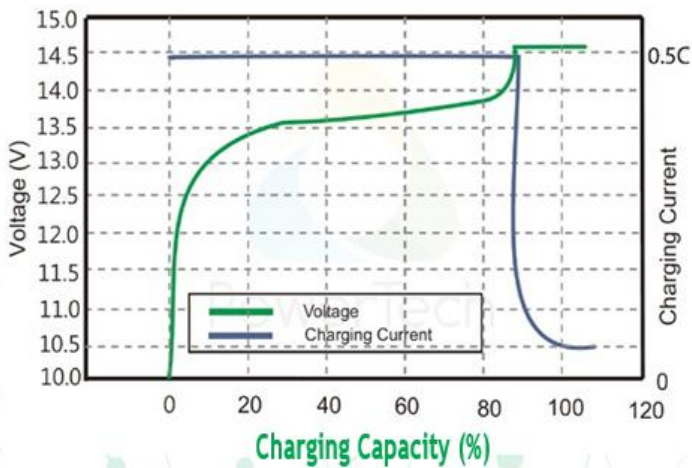
Different Rate Discharge Curve @25°C



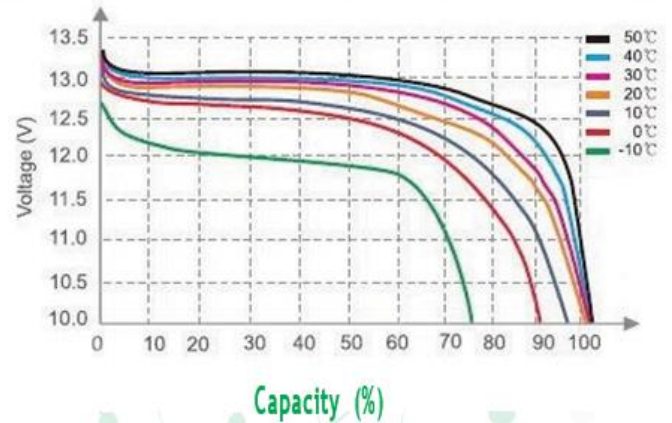
Different DOD Discharge Cycle Life Curves 1C 25°C



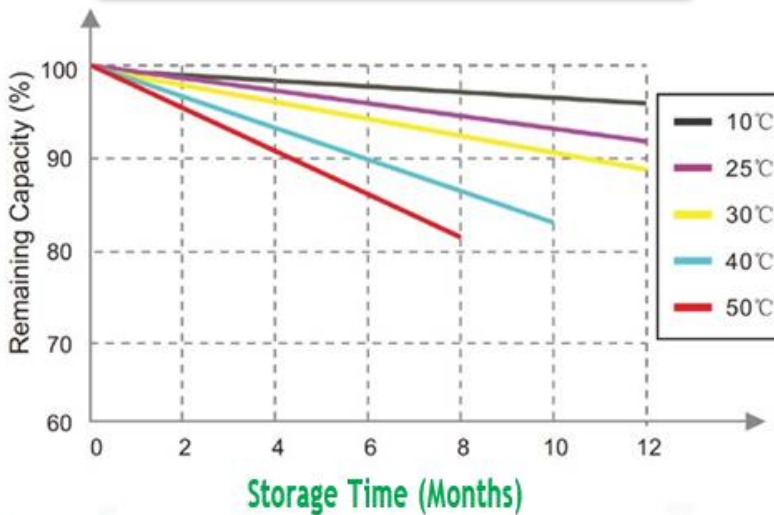
Charging Characteristics @ 0,5C 25°C



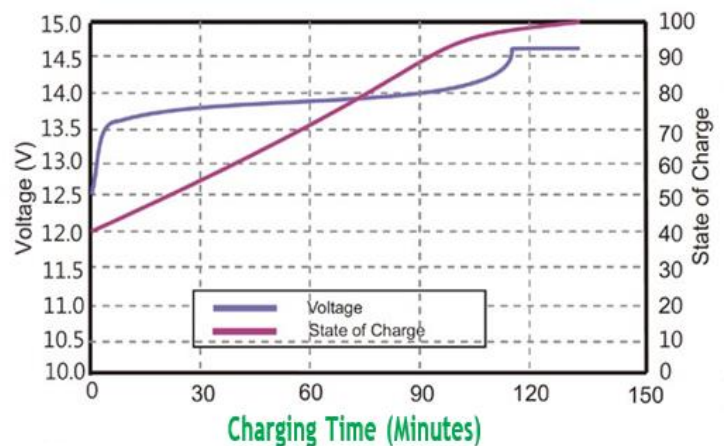
Different Temperature Discharge Curve (0.2C)



State of Charge Curves @0.5C 25°C



Different Temperature Self Discharge Curve





MERKEZ

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