

## **12.8V 300Ah 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 Peukert's Losses (Energy Efficiency >98%)
- Very Low Self Discharge (<3% Per Month)
- BMS With Built-in Bluetooth
- About 50% Lighter and 40% Smaller Than Equivalent Lead-AGM Battery With Same Usable



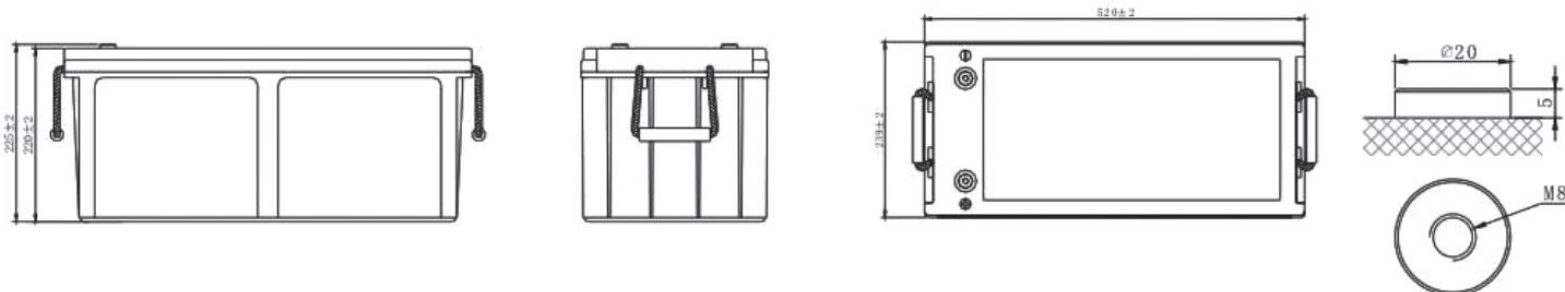
### **PRODUCT FEATURES**

- Electrical Vehicles and Unitiles
- Robotic and AGVs
- Solar and Wind Energy Storage
- Marine
- Street Lighting
- CCTV and Security Camera
- UPS, Electric Back-up
- Telecom
- Medical Equipments

## TECHNICAL SPECIFICATIONS

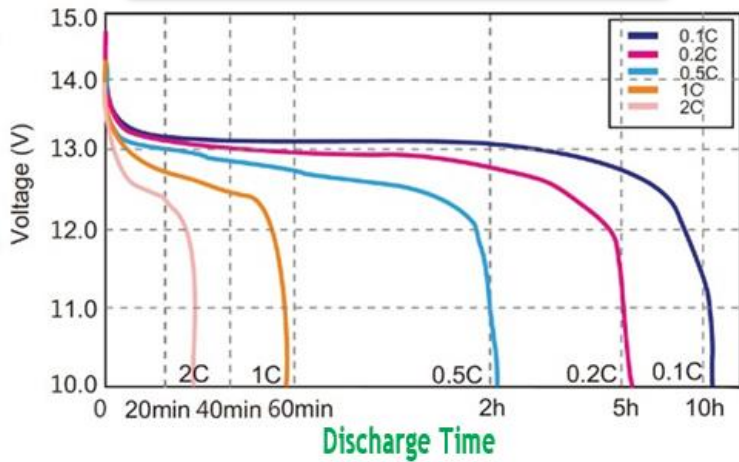
Electric	Nominal Voltage	12.8 V
	Nominal Capacity	300 Ah
	Stored Power	3840 Wh
	Internal Resistance	$\leq 50\text{m}\Omega$
	Cycles	>6000 cycles
	Self Discharge	< 3% per month
	Energy Efficiency	> 98%
Standard Charge	Charge Voltage	14.4 V $\pm$ 0.2V
	Charge Mode	CC/CV : Constant Current / Constant Voltage
	Continuous Charge Current / Max. Charge Current	150 A / 200A
	BMS Charge Cut-off Voltage	14.8 V $\pm$ 0.1V
Standard Discharge	Instant Peak Discharge Current	350 A $\pm$ 30 A (max 100ms)
	Continuous Discharge Current	150 A (1.92 kW)
	Max. Discharge Current	200 A (2.56 kW)
	BMS Discharge Cut-off	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 Cell	Prismatic
	Casing Material	ABS
	Dimensions	L : 520mm x W : 240mm x H : 225 mm
	Weight	28 kg
	Terminal	M8

## PRODUCT DIMENSIONS

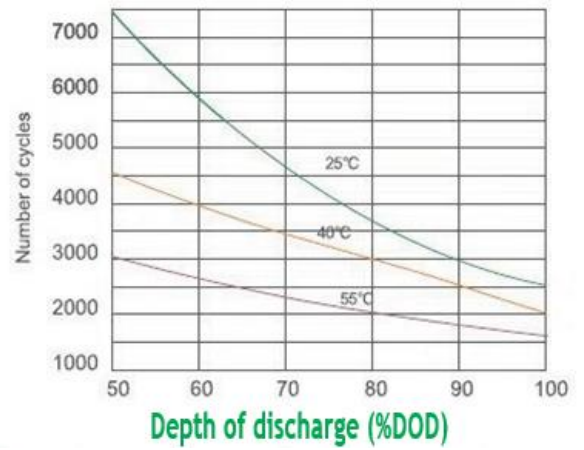


## CHARTS AND CURVES

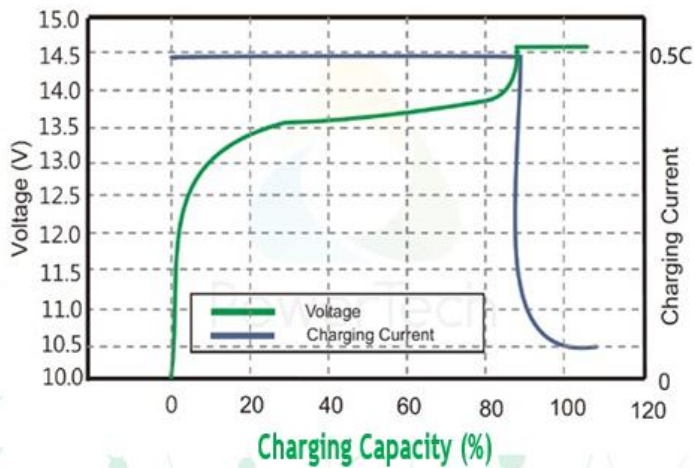
### Different Rate Discharge Curve



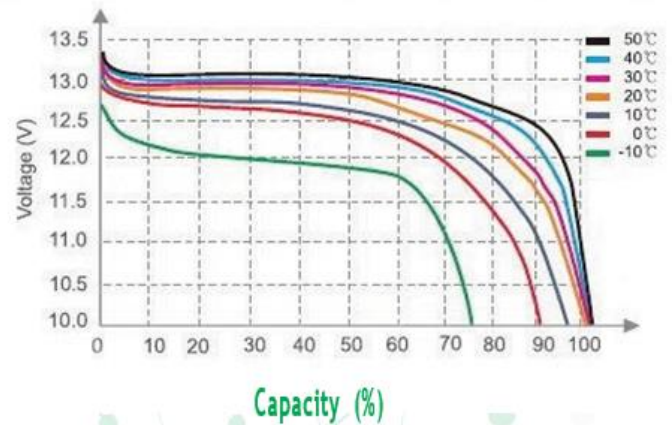
### Different DOD Discharge Cycle Life Curves 1C 25°C



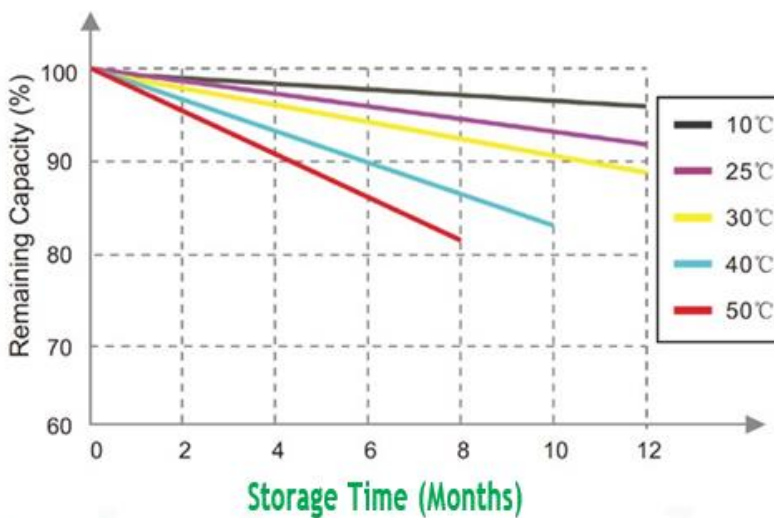
### Charging Characteristics @ 0,5C



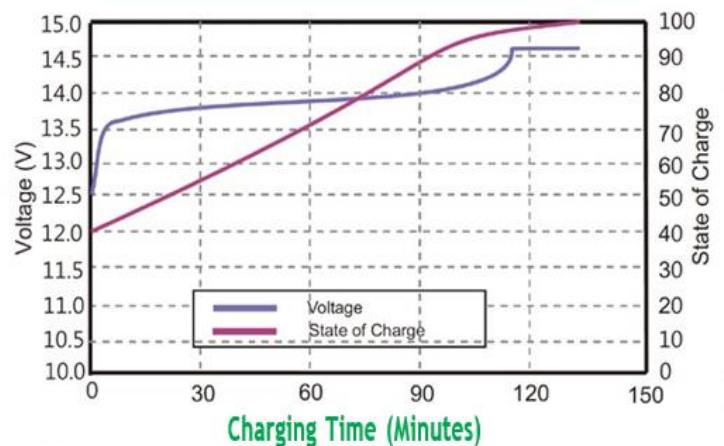
### Different Temperature Discharge Curve (0.2C)



### State of Charge Curves @0.5C 25°C



### Different Temperature Self Discharge Curve





**MERKEZ**

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