



ECO GREEN ENERGY
Building a Greener World



EGE-LiFePO4 Battery 24V

LITHIUM IRON PHOSPHATE BATTERY

54Ah/100Ah/200Ah

Eco Green Energy has designed its lithium iron battery series that provide versatility durability and reliability to your On-Grid and Off-Grid Projects. Certified by international standards, our batteries offer you a wide range of options for your energy storage needs.

FEATURES & BENEFITS



High cycle life

>3000 cycles @80% DoD for effectively lower total cost of ownership.



Longer service life

Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC) of smart models.



Built in circuit protection

Battery Management Systems (BMS) are incorporated against abuse.



Better storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



Lightweight

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.

EGE 24V 54Ah - 100Ah - 200Ah

Technical Specification **24V Series**



Module

24V54Ah

24V100Ah

24V200Ah

ELECTRICAL PERFORMANCE

Nominal Voltage	25.6 V	25.6 V	25.6 V
Nominal Capacity	54 Ah	100Ah	200Ah
Capacity	@ 10.8 A 300 min	@ 20 A 300 min	@ 40 A 300 min
Energy	1382.4Wh	2560 Wh	5120Wh
Resistance	≤30 mΩ @ 50% SOC	≤30 mΩ @ 50% SOC	≤30 mΩ @ 50% SOC
Self Discharge	<3% / Month	<3% / Month	<3% / Month
Cells	LEP Cell 3.2V	LEP Cell 3.2V	LEP Cell 3.2V

CHARGE PERFORMANCE

Recommended Charge Current	10.8 A	20 A	40 A
Maximum Charge Current	27 A	50 A	50 V
Charge Cut-Off Voltage	29.2 V	29.2 V	29.2 V
Reconnect Voltage	>28 V	>28 V	>28 V
Balancing Voltage	<27.2 V	<27.2 V	<27.2V
Maximum Batteries in Series	2 (Optional)	2 (Optional)	2 (Optional)

DISCHARGE PERFORMANCE

Continuous Discharge Current	27 A	50 A	50 A
Maximum Continuous Discharge Current	54 A	100 A	100 A
Peak Discharge Cut-Off Current	120 A (5 -15 ms)	300 A (5 -15 ms)	300 A (5 -15 ms)
Discharge Cut-Off Voltage	20 V	20 V	20 V
Reconnect Voltage	>22.4 V	>22.4 V	>22.4 V
Short Circuit Protection	200 - 600 μs	200 - 600 μs	200 - 600 μs

MECHANICAL PERFORMANCE

Reference			
Dimension (L x W x H)	330 x 172 x 223 mm 12.99 x 6.77 x 8.8"	522 x 240 x 218 mm 20.55 x 9.45 x 8.58"	522 x 240 x 218 mm 20.55 x 9.45 x 8.58"
Approx. Weight	About 14.0 kg	About 22.6kg	About 42 kg
Terminal Type	M8	M8	M8
Terminal Torque	80 - 100 in-lbs / (9 - 11 N-m)	80 - 100 in-lbs / (9 - 11 N-m)	80 - 100 in-lbs / (9 - 11 N-m)
Function	/	LED, Bluetooth(Optional)	LED, Bluetooth(Optional)
Case Material	ABS	ABS	ABS
Enclosure Protection	IP65	IP65	IP65

TEMPERATURE PERFORMANCE

Discharge Temperature	-4 - 140 °F (-20 - 60 °C)	-4 - 140 °F (-20 - 60 °C)	-4 - 140 °F (-20 - 60 °C)
Charge Temperature	32 - 113 °F (0 - 45 °C)	32 - 113 °F (0 - 45 °C)	32 - 113 °F (0 - 45 °C)
Storage Temperature	23 - 95 °F (-5 - 35 °C)	23 - 95 °F (-5 - 35 °C)	23 - 95 °F (-5 - 35 °C)
High Temperature Cut-Off	149 °F (65 °C)	149 °F (65 °C)	149 °F (65 °C)
Reconnect Temperature	118 °F (48 °C)	118 °F (48 °C)	118 °F (48 °C)

COMPLIANCE

Certifications	CE- UN38.3 UL1642 & IEC62133	CE- UN38.3 UL1642 & IEC62133	CE- UN38.3 UL1642 & IEC62133
Shipping Classification	UN 3480, CLASS 9	UN 3480, CLASS 9	UN 3480, CLASS 9

PACKAGING & LOGISTICS

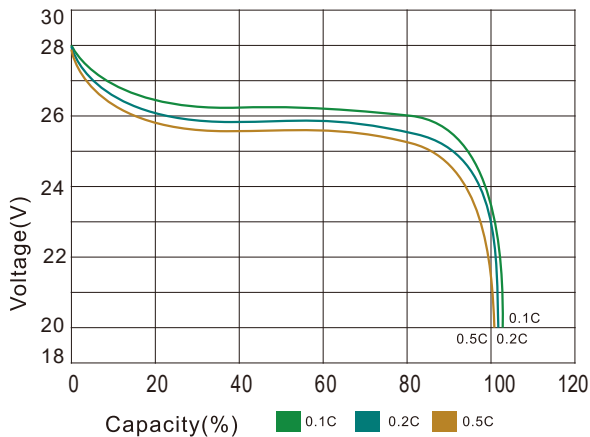
Units / Layer	2	2	2
Layer / Pallet	10	7	4
Unit / Pallet	20	14	8
Unit / 20GP Container	560	392	224
Weight (Kg) / Pallet	640	490	400
Weight (Ton) / 20GP Container	17.92	13.72	11.2

EGE 24V 54Ah - 100Ah - 200Ah

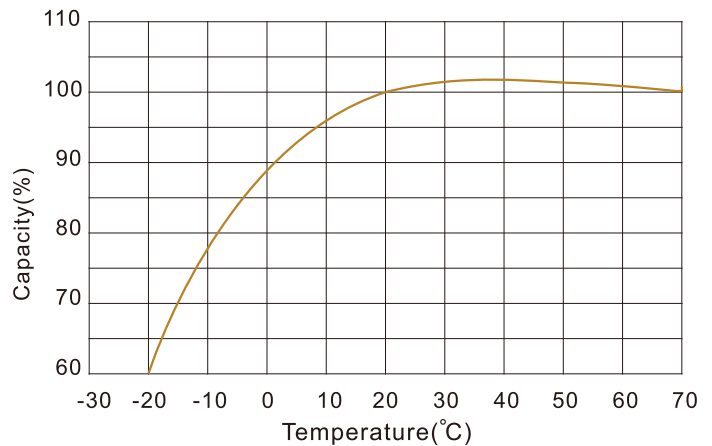
Technical Specification **24V Series**

PERFORMANCE CHARACTERISTICS

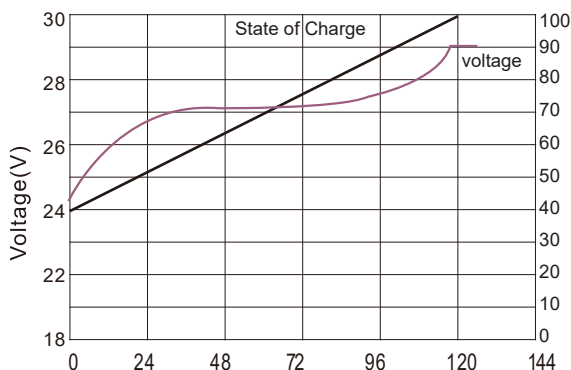
Discharge Performance at 25°C



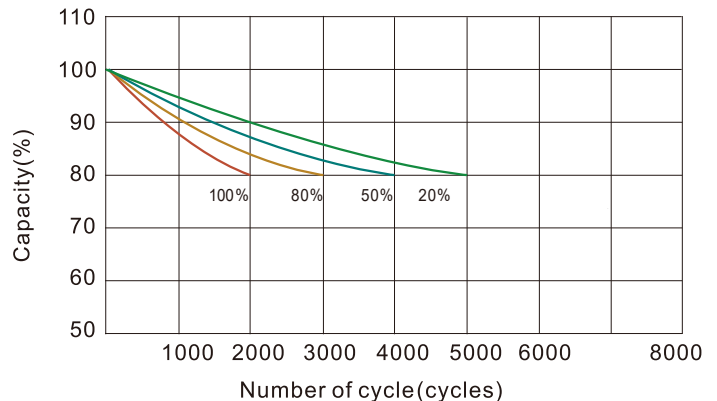
Temperature Effect on Capacity 0.2 C



State of Charge Curve (0.5C, 25°C)



Cycle Life with DoD at 25°C, 0.2 C



Note: Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more

CAUTIONS

- Do NOT short circuit, crush or disassemble
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 50% capacity. Recharge every 3 months storage area should be clean, cool, dry and ventilated.



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