



ELEKTRA BOOST

CSE-ESS-12.8V100Ah



LONGER CYCLE LIFE

Offer up to 10 times longer cycle life and five times longer float/calendar life than lead acid battery, helping it minimize replacement cost and reduce total cost of ownership.



LIGHTER WEIGHT

About 40% of the weight of a comparable lead acid battery. A'drop in' replacement for lead acid batteries.



HIGHER POWER

Delivers twice power of lead acid battery, even high discharge rate while maintaining high energy capacity.



WIDER TEMPERATURE RANGE

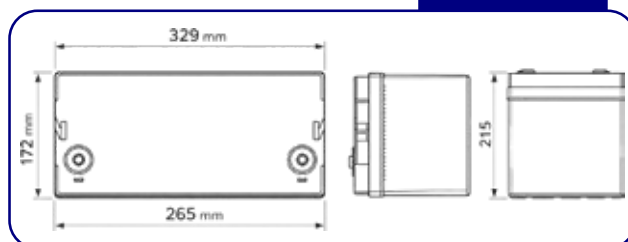
-20~60°C



SUPERIOR SAFETY

Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

DIMENSION-MM



APPLICATION

Solar/Wind Energy Storage



TECHNICAL PARAMETERS

BATTERY MODULE		CSE-ESS-12.8V100AH
Rated Voltage		12.8V
Rated Capacity		100Ah
Rated Energy		1280wh
Internal Resistance (AC)		≤80mΩ
Cycle Life		≥3500 cycles @80%DOD
Self Discharge		1%/months
Efficiency of Charge		≥97%
Efficiency of Discharge		≥98%

CHARGE

Charge Voltage	14.6V
Charge Current (Recomm.)	50A
Charge Current (Max.)	100A

DISCHARGE

Discharge Cut-off Voltage	10V
Discharge Current (Max.)	100A
Pulse Current	120A (3S)
Discharge Current Recommended	50A

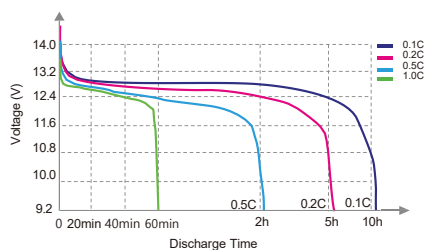
ENVIRONMENT

Charge Temperature	0°C to 60°C
Discharge Temperature	-20°C to 60°C
Humidity	5% to 95%
IP Class	IP20

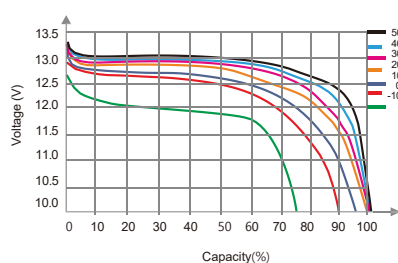
PHYSICAL CHARACTERISTICS

Terminal	M8
Plastic Case	ABS
Dimensions (mm)	329172215mm (±4mm)
Weight (kg)	10.5kg
Built in Bluetooth	Yes

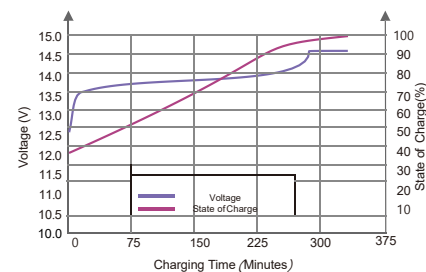
Different Rate Discharge Curve(25°C)



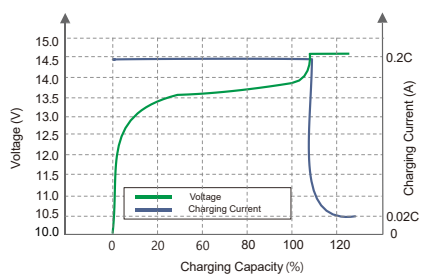
Different Temperature Discharge Curve(0.5C)



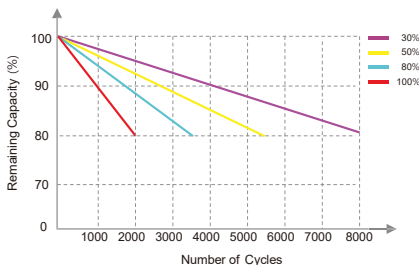
State of Charge Curve(0.2C, 25°C)



Charging Characteristics(0.2C, 25°C)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve

