CROWN
SOLAR ENERGY

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.

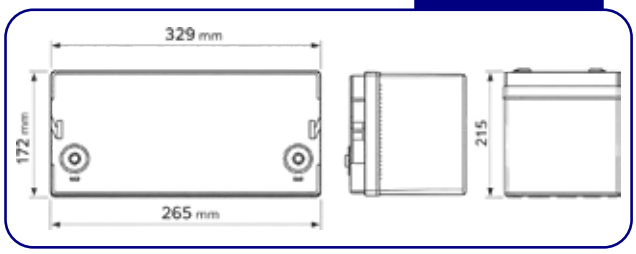
LIGHTER WEIGHT
About 40% of the weight of a comparable lead acid battery. A'drop in' replacement for lead acid batteries.

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

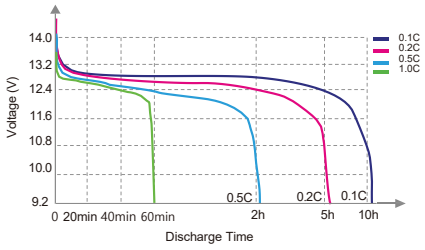
24/7 AFTER SALES SERVICE

CROWN EASY REPLACEMENT WARRANTY

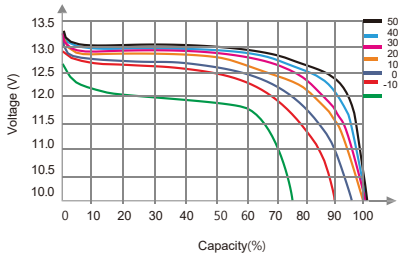
TECHNICAL PARAMETERS

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

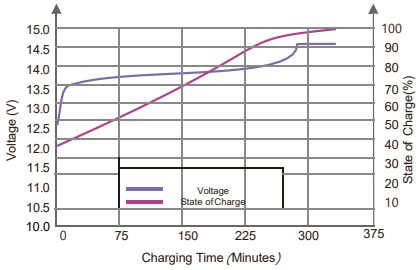
Different Rate Discharge Curve(25℃)



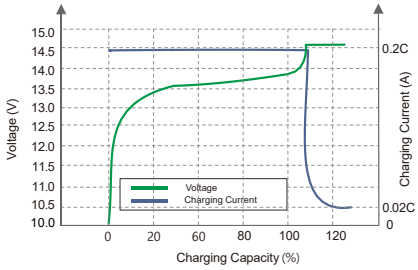
Different Temperature Discharge Curve(0.5C)



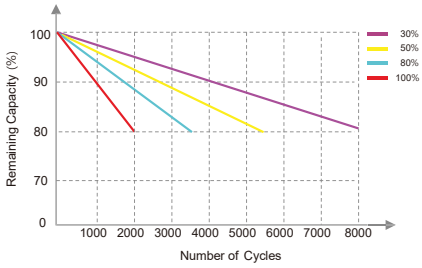
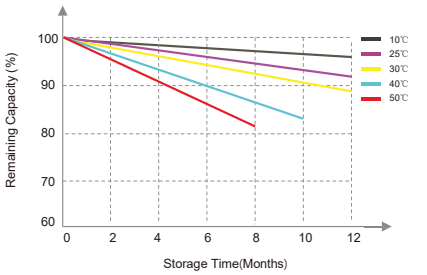
State of Charge Curve(0.2C, 25℃)



Charging Characteristics(0.2C, 25℃)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve