

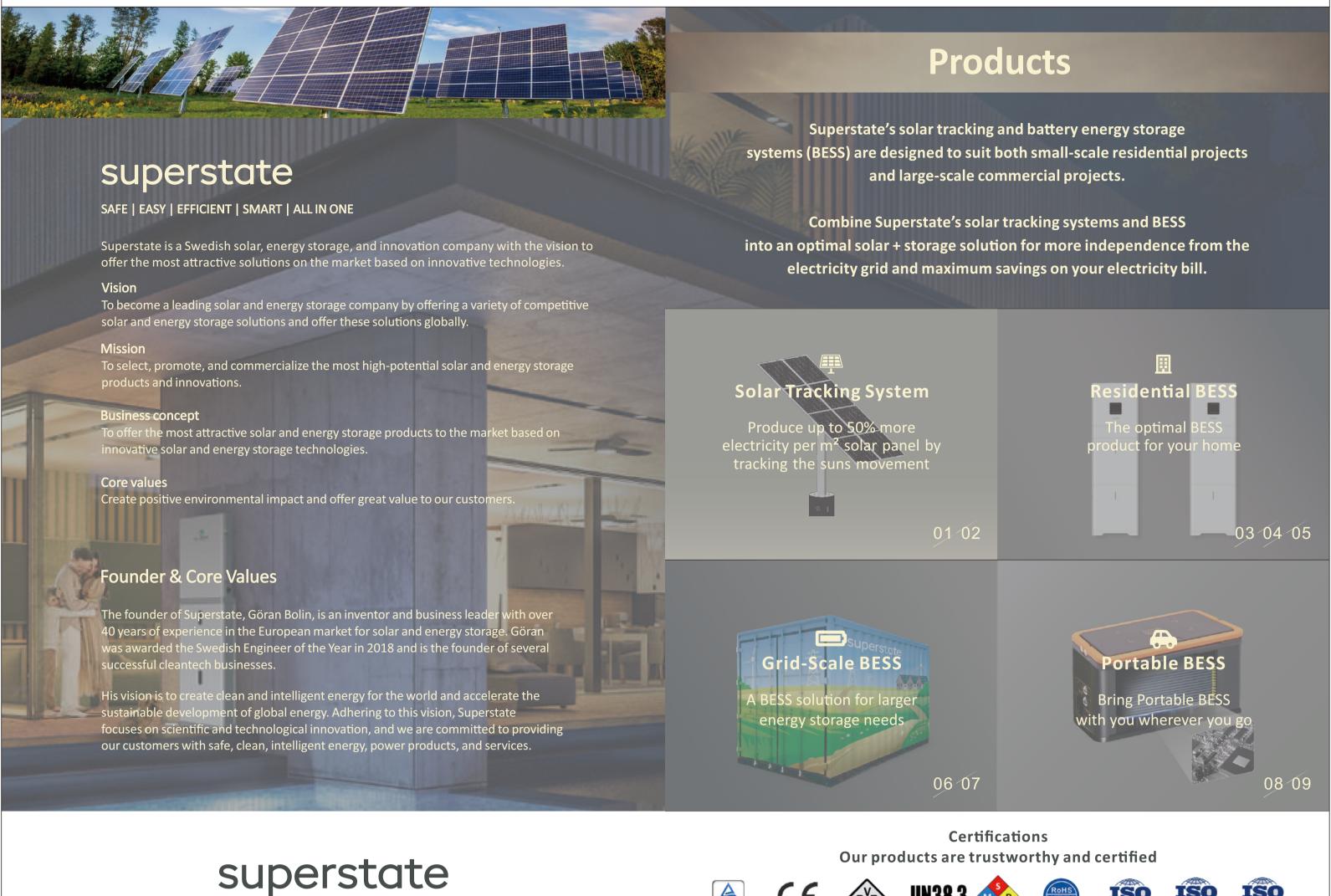
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Superstate AB Nybohovsbacken 97, 117 64 Stockholm, Sweden

superstate

info@superstate.se

 info@superstate.se



Control mode

Solarmotion 1.5-5.0kW Dual Axis Solar Tracker

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Benefits of solar tracking

residential and industrial segments.

tracking the suns movement

the Nordics.

Superstate offers fully automatic Dual Axis Solar Trackers in sizes ranging from 1.5kW to 5kW targeting both the

Increased electricity production per m² solar panels by

—Tracking —Fixed —Consumption

Time

The extra energy is generated in the morning and in the evening which matches the consumption curve of a typical household much more efficiently than a static system which

peaks at solar noon – often when no one is home.

Superstate Technology

UP TO 40-50% MORE

Astronomic algorithm + tile sensor

VARRANTY: 10-YEAR STRUCTURAL, 5-YEAR DRIVE AND CONTROL COMPONENT

• SINGLE ROW TYPE

close loop control

superstate

Residential BESS

design and an easier installation

iKran series

Solar tracking increases electricity production by 25-50% per year compared with a fixed panel facing south with an ideal tilt. The energy increase depends on the latitude where the installation is located, from +25% at the Equator to +50% in

Time + GPS Average tracking accuracy 0.1 – 2.0 degrees (adjustable)

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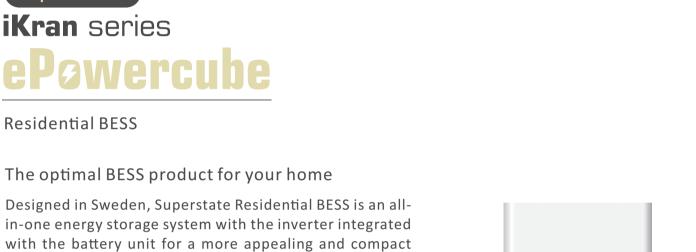
Specifications for Solarmotion

24V/1.5A			
5,000 N x M			
<0.01 kWh/day			
100 degrees			
50 degrees			
>40m/s			
>24m/s			
Hot-Dipped Galvanized Steel > 65μm			
-40C-+75C			
CE, TUV			
150 – 250kg			
1.5 – 5.0kW			



Max. PV input power





Dual Axis Solar Tracking system with the most efficient design, easy for installation and maintenance

Automatically tracks the trace of the sun

1mprove your power yield by 40-50%

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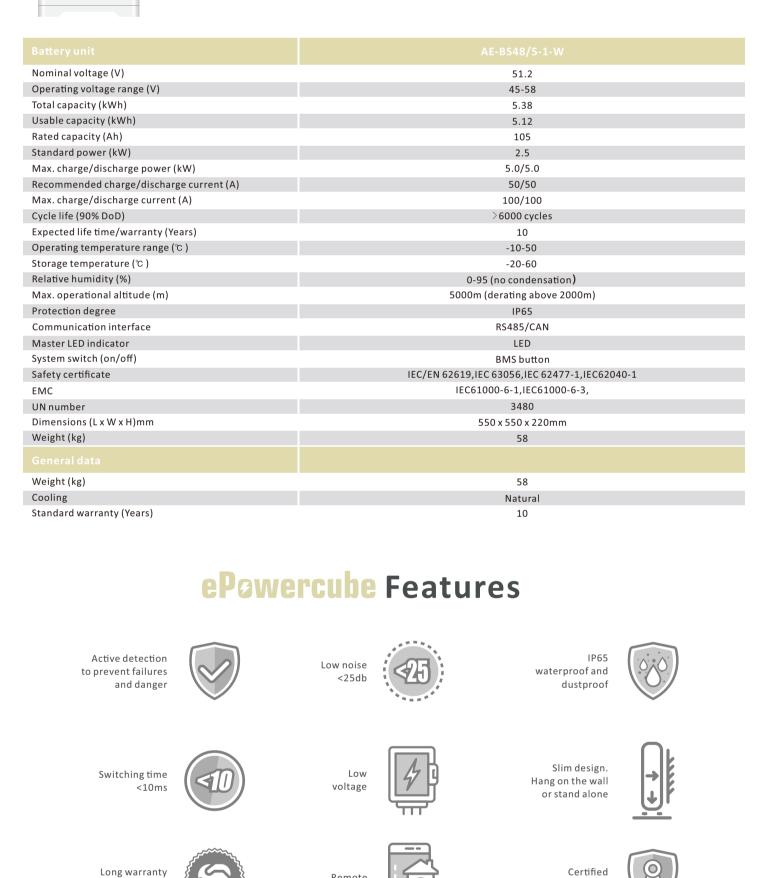
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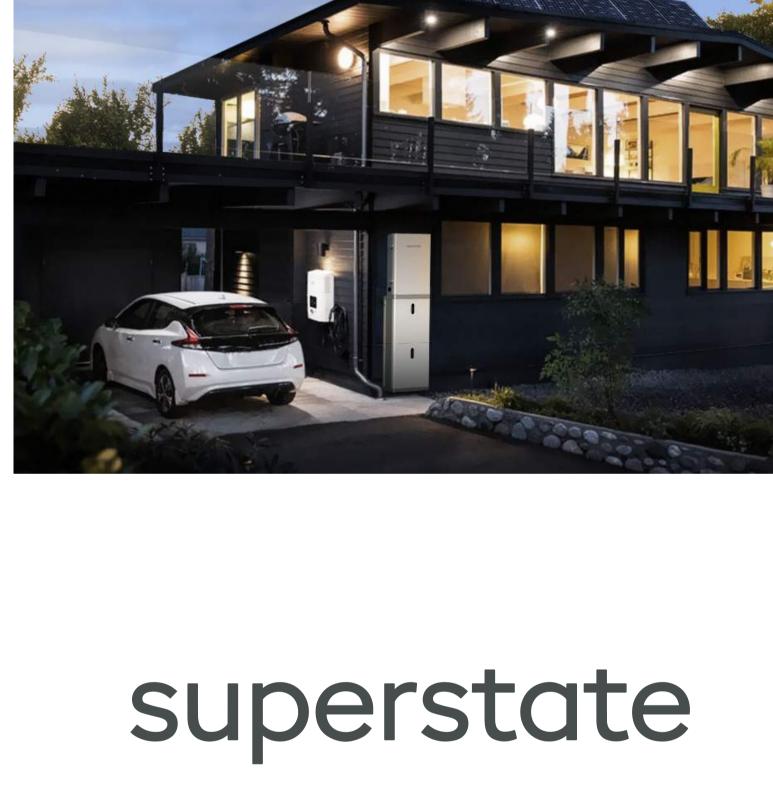


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Specifications for battery unit

Max. PV input v Start voltage 120V MPPT voltage range 125V-550V Rated MPPT voltage 360V Max. PV input current 14A Number of MPP trackers / string per MPPT 2/1 Max. output current 16A 17.4A 21.7A Rated power 3.6kVA 5kVA 3kVA 4kVA 4.6kVA 6kVA Rated voltage 230V, L+N+PE Operating voltage range 180V-280V Frequency 50Hz/60Hz 1 (0.99 lagging – 0.99 leading) Power factor THDi <3% Output (EPS) Rated power 3.6kVA 4kVA 6KVA 230Vac Rated voltage 21.7A 26A 16A 17.4A Rated current Rated frequency 50Hz/60Hz Automatic switch time Overload capability 110%,60s/120%,30s/150%,10s THDU <2% Max. DC efficiency 97% European efficiency MPPT efficiency 99.90% Battery charge / discharge efficiency 95.5%/95% Display Standard: RS485/CAN/DRM Communication Optional: WIFI/LAN Standard compliance Certificates CE, TÜV, SAA, IEC62116:2014, IEC61683:1999 Dimensions (W x H x D) 550 x 500 x 200mm Weight 26kg Operating temperature -25℃ - 60℃ Cooling method Natural cooling Protection degree Noise emission <35dB Max. operating altitude 5000m (derating above 2000m) 0-95% (non-condensing) Relative humidity Topology Transformerless Standby power consumption <3W superstate 04





superstate 05 superstate ePowerstation 500kWh All-in-one Energy Storage Module A BESS solution for **Superstate** larger energy storage needs

BESS

PV Input (DC)

Battery type

Battery voltage range

Grid side output (AC)

AC rated power

Battery storage capacity

DC input:

12V/5A,60W Max

iPhone 13

3095mAh

About

40 times

Electric cooker

300W

About

1.5 hours

to environmental factors.

OVP, OCP, UVL, SCPD, OPP, High-Limit

PD input/output*1:

Camera

8Wh

About

54 times

40W

About

11 hours

Data obtained from laboratory tests and may vary slightly due

40Wh

About 10 times

Projector 45W

About

10 hours

5V-20V.60W Max

Reference time of device usage

Notebook PC

80W

About

5.4 hours

Car refrigerator

55W

About

14 hours

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Loudspeaker box*1:

Bluetooth, TF Card, USB

Remote

In order to adapt to large-scale energy storage

requirements. ePowerstation is an all-in-one

energy storage module. ePowerstation includes battery modules, a step-up transformer, an

energy storage converter and a communication unit with the function of virtual synchronization.

modularity, integration, and design

Intelligent security

IP54 protection with integrated intelligent fire

protection system and temperature control

2000+ cycle life

4 kinds of Charging Methods

Method #1

Plugged into power outlet

AC maximum power 300kVA Rated voltage range 380±20% V

Specifications for ePowerstation 500kWh

Lithium Iron Phosphate/230Ah

300-850V

500kWh

250kVA

Wire system			Three phase four wire			
Rated grid frequency	50/60±5Hz					
AC current variability	AC current variability					
DC component	DC component			≤0.5%lpn		
Power factor	Power factor		>0.99			
Power factor control	Power factor control			-1~1		
Unbalance compensation	Unbalance compensation					
Harmonic compensation	Harmonic compensation		2-25 time	S		
Virtual synchronization function	Virtual synchronization function		Standardiz	ed		
System data						
Maximum system efficiency	Maximum system efficiency		≥91%			
Charge and discharge rate	Charge and discharge rate		0.5C			
Battery depth of discharge		95%				
Cycle life	Cycle life		10000			
Charge and discharge switching time	Charge and discharge switching time					
Communication interface	Communication interface		LAN/CAN/485			
Protection rating	Protection rating		IP54			
Transformer	Transformer		Optional			
Cooling method	Cooling method		Smart air cooling			
Operating temperature		-25-55℃				
Relative humidity	Relative humidity		5-95%, (non condensing)			
Noise emission	Noise emission		<75dB			
Dimensions	Dimensions		3000*2500*2200 mm			
Fire protection system	Heptafluoropropane					
Weight		4500kg				
superstate 07						
Specifications for Portable BESS						
Brand:	Type:		USB 2.0 input*2:	QC 3.0 output*2:		
Superstate Portable BESS	BS-MPP510A-A		5V/2A,10W	5V-20V,18W Max		
Battery type: Lithium Iron Phosphate	Battery capacity: 160000 mAh		AC output*2: 220V/50Hz,500W (peak 1000W)	Car charging output*1: 12V-10A, 120W Max		
Cycle life:	Coverage material:		DC 5.5 output*2:	Wireless charging output*1:		
>2000	94V-0 flame retardant PC+ABS resin		12V/5A, 60W	5W-7.5W-10W		
Product size:	Product weight:		Ec5 output*1:	Lights*2:		
340*195*210mm	About 7kg		12V/20A	Spotlight 3W Readinglamp 8W		



Solar PV Charging

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FEATURES



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Operating temperature:

-10℃ -60℃

Pure Sine Wave

Alternating Current

Continuous wave with smooth repetitive oscillation. Increases stability and protect electrical

equipment from damage.