

S-MGC Series

100kW/215kWh All-in-one ESS System

S-MGC100-215KH

Shinson[®]
Technology Beyond Limits



 megacube™

All In One Design

Integrated PV and storage system with super wide PV input voltage
Small footprint and IP54 protecting grade for outdoor installation environment;

Safe & Reliable

High-performance battery cell, life cycles ≥ 6000 ;
Perfect protection mechanism: DC backconnection protection, insulation detection, direct surge protection, DC short-circuit protection and AC surge protection, etc.

Convenient & Flexiable

Support multiple parallel connections to expand power and capacity;
Plug and play interface, support the connection to diesel generator;
Easy for installation, operation and maintenance

Smart & User-friendly

Seamless transition to backup mode against power outage;
Support self-consumption, peak and valley arbitrage, backup power supply etc. various applications;
Online monitoring, support remote/ local upgrade.

Data Sheet

Model No.	S-MGC 100/215
Battery Data	
Battery type	LiFePO4
Battery Cell capacity	3.2V,280Ah
Battery Cell combination	1P240S
Nominal capacity	215kWh
Rated voltage	768.0V
Voltage rage	636~876V
charge/discharge ratio	rated 0.5C
DOD	0.9
Cooling method	Fan cooling
PV side	
Max. input power	120kW
Max. input voltage	650V
MPPT operating voltage range	100-650V
Start-up voltage	100V
Max. input current	100A
Max. short circuit current	100A
No. of MPPT trackers	2
No. of strings per MPPT	1
AC side (on-grid)	
AC rated Power	100kW
AC Max. Power	110kVA
THDi	<3%
DC component	<0.5%
AC rated voltage	AC380/400V
grid allowed voltage	320V-460V
AC input model	3P+N+PE
rated frequency	50/60Hz
adjusted PF range	1(leading)~1(lagging)
AC side (off-grid)	
Nominal output voltage	380/400V
Norminal output frequency	50/60HZ
Norminal output current	100kW
Max.Single-phase apparent power	33kVA
access mode	3P+N+PE
Nominal output power	144A
Max. apparent power	110kVA
Switching time	<20ms
General Parameter	
Dimensions(WxDxH)	2480*1950*1750mm
Weight	about 2.5t
Protection grade	IP54
Anti-corrosion grade	C5
Operating temperature	- 25~+55°C
Storage temperature	-30~+55°C
Humidity range	5-95% (no condensing)
Temperature control	Industrial air-conditioning
Fire protection	Pack aerosol+fire hose coupling
Altitude	≤3000m
PCS cooling method	Intelligent air cooling
Communication protocol	Ethernet/RS485/CAN
Communication interface	RJ45

Contact us:

Shinson Technology Co.,Ltd

Website: www.shinsontech.com

Email: info@shinsontech.com

Address: Block#201, No.9 Chuangye Road, Changzhou, Jiangsu, PRC

