

## S-MGC Series

# 50kW/100kWh All-in-one ESS System

S-MGC50-100KH

**Shinson**<sup>®</sup>  
*Technology Beyond Limits*



 megacube™

### Smart & User-friendly

Intelligent EMS with diverse functions developed by Shinson  
Digital System, fast diagnosis, support remote monitoring and upgrade  
Colorful large screen LCD, human-machine interface interaction  
user-friendly

### Safe & Reliable

High-performance battery cell, meet IEC/UL/GB standard;  
Advanced BMS, multiple sampling points coverage, real-time data  
feedback  
Independent single cluster battery, no circulating current,  
safer for use

### Convenient & Flexible

Support self-consumption, peak and valley arbitrage, backup power  
supply etc. various applications;  
Seamless transition to backup mode against power outage;

### 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;



# Data Sheet

Model No.	S-MGC 50/100H
<b>Battery Data</b>	
Battery type	LiFePO4
Battery Cell capacity	3.2V/280Ah
Battery Cell combination	1P112S
Nominal capacity	100.35 kWh
Rated voltage	358.4V
Voltage rage	DC 296.8~408.8V
Max charge/discharge current	100A
DOD	90%
Cooling method	Fan cooling
<b>PV Input</b>	
Max. input power	75KW
Max. input voltage	1000V
MPPT operating voltage range	200-850V/620V
Start-up voltage	180V
Max. input current	30A*4
Max. short circuit current	40A*4
No. of MPPT trackers	4
No. of strings per MPPT	2
<b>AC Output</b>	
Nominal output power	50KW
Norminal output voltage	380V/400V, 3L/N/PE
Norminal output frequency	50Hz/60Hz
Max. output current	83A
Power factor	~1 (0.8 lead to 0.8 lag, can be set)
THDi	<3%
<b>Back-up Data</b>	
Nominal output voltage	380V/400V, 3L/N/PE
Norminal output frequency	50Hz/60Hz
Norminal output current	83A
Nominal output power	35.8kW
Max. apparent power	35.8kVA
Max.Single-phase apparent power	12kVA
Switching time	<20ms
<b>System Data</b>	
Dimensions(WxDxH)	1530*1280*1740mm
Weight	1.5t
Protection grade	IP54
Anti-corrosion grade	C4
Operating temperature	-20°C~55°C
Storage temperature	-30°C~55°C
Relative humidity	≤100%
Temperature control	Industrial air-conditioning
Fire protection	Aerosol
Altitude	≤3000m
PCS cooling method	Forced air cooling
Communication protocol	Modbus /RS485
Communication interface	RJ45

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