

Backup Gateway

Model	Gateway80 S1
Grid Port	
Grid Type	Single Phase
Nominal AC Voltage (V)	230/240
Nominal AC Frequency (Hz)	50/60
Max. Continuous Current (A)	65.3
Max. Overcurrent Protection (A)	80
Backup Port	
Nominal AC Voltage (V)	230/240
Nominal AC Frequency (Hz)	50/60
Max. Continuous Current (A)	65.3
Inverter Port	
Nominal AC Voltage (V)	230/240
Nominal AC Frequency (Hz)	50/60
Nominal AC Current (A)	65.3*
Nominal AC Power (kW)	15*
General Data	
Operating Temperature (°C)	-20 ~ 50
Operating Humidity (RH)	Up to 100%, condensing
Max. Elevation (m)	3000
Protection Degree	IP65
Communication Interfaces	RS485 / Dry Contact
Energy Meter	1% Accuracy
Dimensions (W*H*D, mm)	420*480*120
Weight (kg)	12
Mounting	Wall Mount

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Note:

*Inverter ports can support parallel operation of all-in-one ESS, with a maximum combined power not exceeding 15 kW.

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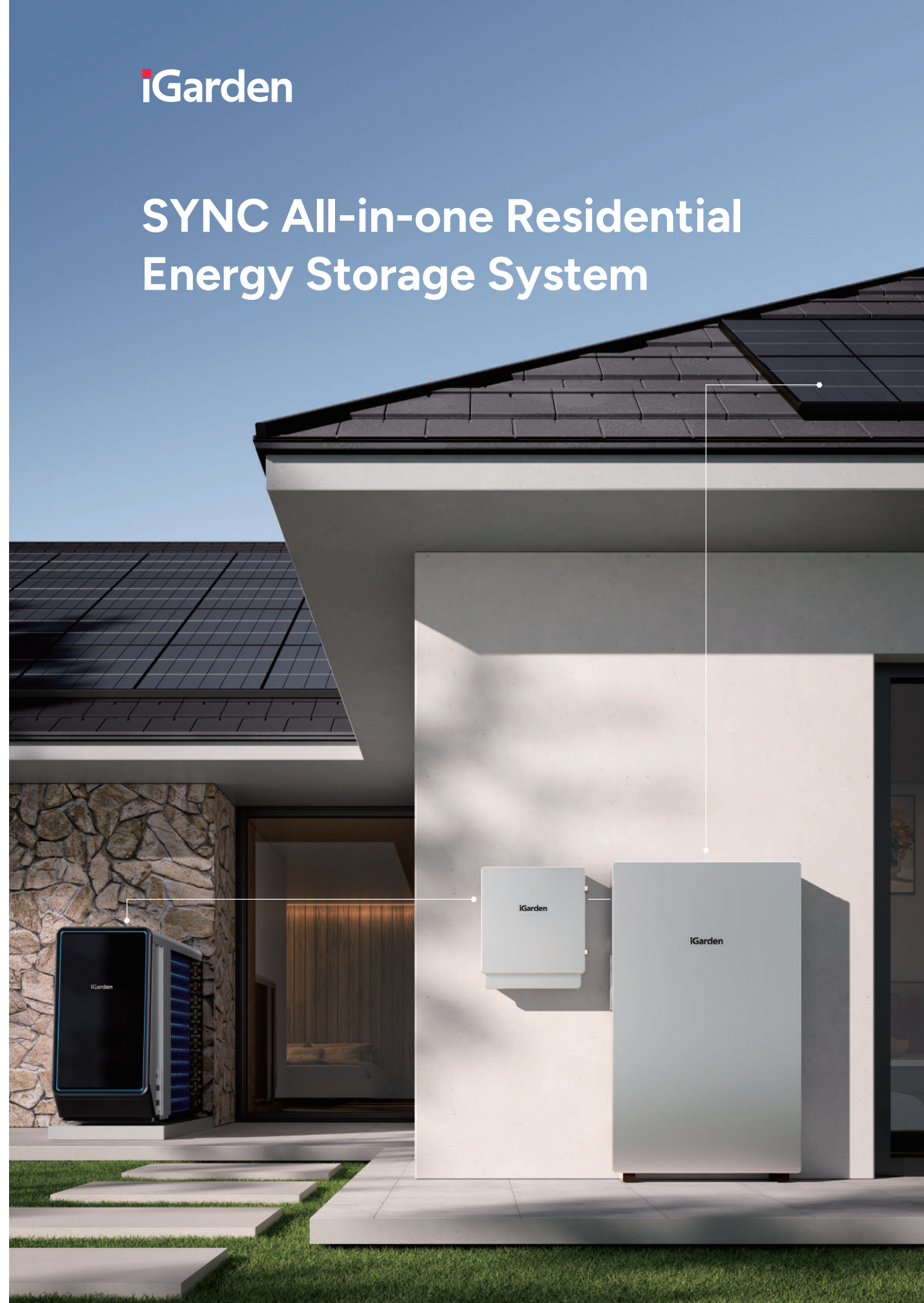
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iGarden

SYNC All-in-one Residential Energy Storage System





Thinnest Panel Design

Thinnest panel design with customized front panel, define your own energy manager.



100% Free Power

Smartly link Fairland's HVAC heat pump, pool heat pump, or even the whole iGarden robotics, maximize the use of free energy.



-20~50 °C Operation

The intelligent temperature regulation system allows the device to operate reliably in temperature ranges from -20 °C to +50 °C without concern for extreme weather conditions.

SYNC All-in-one solar ESS (EU model)

Model	SYNC 3.6K S1	SYNC 4.6K S1	SYNC 5K S1	SYNC 6K S1	SYNC 7.5K S1
PV Input Data					
Suggested Max. PV Input Power (Wp)	11180	12100	12500	13500	15000
Max. DC Voltage (V)	550				
Start-up voltage (V)	120				
MPPT Voltage Range (V)	90~500				
Independent MPPT Inputs / Inputs per MPPT	3/1				
Max. Current per MPPT (A)	16				
Max. Short-circuit Current per MPPT (A)	20				
Grid Data					
Max. Apparent AC Power (VA)	3680	4600	5000	6000	7500
Peak Apparent AC Power (10 s, Backup, VA)	11250				
Normal AC Power (W)	3680	4600	5000	6000	7500
Nominal AC Voltage (V)	230/240				
Grid Type	Single Phase				
AC Grid Frequency (Hz)	50/60				
Max. Continuous Current (A)	16	20	21.7	26.1	32.6
Power Factor	0.8 leading to 0.8 lagging				
Max. Inverter Efficiency	98.00%				
Total Harmonic Distortion (THDi, rated power)	<3%				
Battery Data					
Battery Type	LFP (LiFePO ₄)				
Total Energy (kWh)	14.7				
Operated Temperature (°C)	Charge : -5~50/Discharge : -20~50*				
Max. Continuous Charging/Discharging Current (A)	40				
Max. Continuous Charging Power (W)	7500				
Max. Continuous Discharging Power (W) (off-grid)	7500				
Max. Continuous Discharging Power (W) (on-grid)	3680	4600	5000	6000	7500
Protection					
DC Reverse Polarity Protection	YES	AFCI Protection		Optional	
DC Switch	YES	AC Short-Circuit Protection		YES	
PV Rapid Shutdown (RSD)	Optional	Grid Monitoring		YES	
Isolation Monitor Interrupter (IMI)	YES	Anti-Islanding Protection		YES	
General Data					
Operating Temperature Range (°C)	-20~50 (Derating above 45)				
Operating Humidity (RH)	Up to 100%, condensing				
Storage Temperature (°C)	-20~45, up to 95% RH, non-condensing				
Max. Elevation (m)	3000				
Inverter Topology	Non-isolated				
Cooling	Natural convection				
Protection Degree	IP66				
Customer Interface	App				
Communication Interfaces	RS485, CAN, WiFi & LAN				
Mechanical					
Dimensions (W*H*D, mm)	760*1253*150 (No fixed feet)				
Weight (kg)	180				
Mounting	Wall mount or floor mount				

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Note:

* Inverter Operating Temperature: -20°C to 50°C (>45°C derating), Battery Charging Temperature: -5°C to 50°C (>35°C derating), Battery Discharging Temperature: -20°C to 50°C (>45°C derating).