



+ Features

👍 High-efficiency PCS

- Three-level topology
- 3U standard module
- Up to 98.8% conversion efficiency

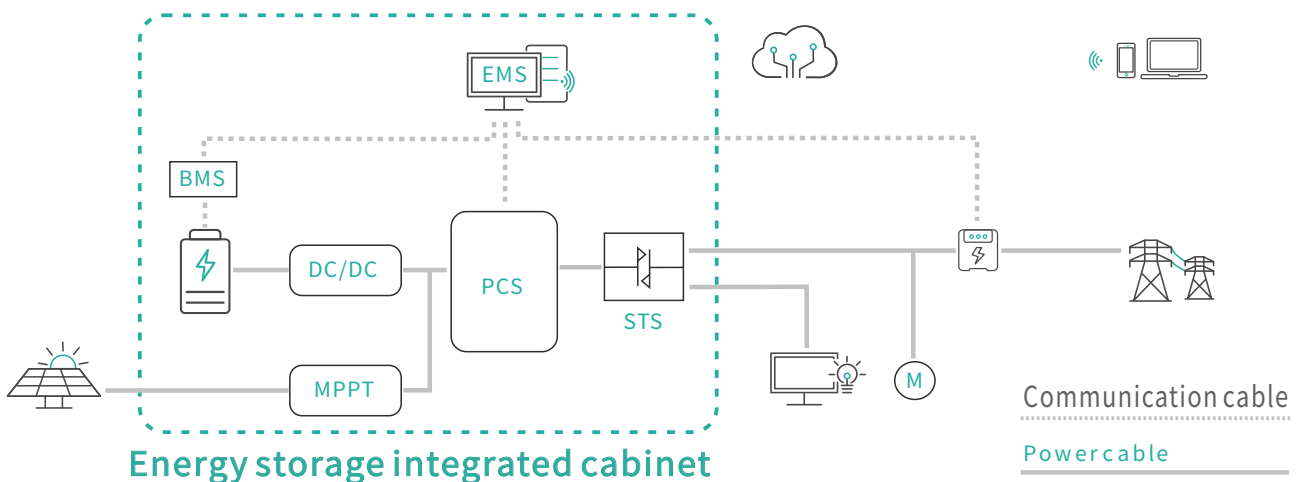
⚡ Rich function

- Support micro-grid system
- Peak cut , demand response
- Seamlessly switch between on & off grid

✅ High reliability

- Fast fuse protection of DC circuit
- Multi-level battery safety management
- LFP battery/Solid-state battery
- Independent cabin design
- Cycle life of over 6000 times
- High-efficient thermal management system
- IP 54

Industrial and commercial energy storage system



Model	IG TPI 60kW/61.44 kWh	IG TPI 40kW/40 kWh
Battery		
Type of cell	LFP 3.2V/100Ah	LFP 3.2V/100Ah
Configuration of battery pack	5.12kWh/1P16S	5.12kWh/1P16S
Configuration of system	1P192S	1P128S
Capacity of system	61.44kWh	40.96kWh
Rated voltage	614.4VDC	409.6VDC
Voltage range	480~700.8VDC	320~467.2VDC
Multiplying rate of charge and discharge	1C/1C	1C/1C
Photovoltaic input parameters		
Rated power	60kW (4*15kW)	40kW (4*10kW)
Rated current	180A(4*45A)	120A(4*30A)
Rated voltage		350V
Maximum output voltage		1000V
MPPT Voltage range		150~1000VDC
Full power voltage range		340~1000VDC
Starting voltage of auxiliary power supply		150V
ACside		
Rated power	60kW	40kW
Maximum power	66kW (10min) \72kW (1min)	44kW (10min) \48kW (1min)
Total harmonic distortion of current		≤3%
DC component		<0.5%output rated current
Rated voltage		3*230V/400V
Range of permitted grid voltage		360V~440V
Access method		3P4W+PE
Rated grid frequency		50/60Hz
Range of power factor		1 (leading) ~-1 (lagging)
Off-grid operation		Available
Efficiency		
Maximum efficiency of PCS		98.8%
Maximum efficiency of system		99%
Maximum system efficiency		87.5%
Protection		
DC RCP		Available
AC OCP		Available
AC over/under voltage protection		Available
AC SCP		Available
High and low voltage ride through		Available
Communication and HMI		
Interface		RS485/WiFi/4G/Ethernet
HMI		Touch screen/indicator
System		
Weight	1300kg	1000kg
Dimensions (W*D*H)	1000*1050*2200mm	1000*1050*2200mm
IP level		IP 54
Noise		<70dB
Working temperature		-20°C~+60°C (derating required above 40°C)
Storage temperature		-20°C~+60°C
Relative humidity		0~95% (no condensation)
Fire control		Aerosol or Perfluoro
Working altitude		≤4000m
Cooling method		Intelligent air cooling