

Joint

@ Sustainable Energy

BUSINESS

JOINT | ESS Series

JAC20DP2 / JAC25DP2 / JAC29DP2 / JAC30DP2
JAC40DP2 / JAC49DP2 / JAC50DP2
ESS70DE2 / ESS89DE2 / ESS107DE2

Versatile Application

- Ideal for factories, hotels, and farms with DC / AC-coupled solar-storage
- No external switching device is required, on/off-grid switching time about 10ms,support direct output backup load

Safe & Reliable

- 280ah large capacity cell,higher energy density
- Carbon monoxide detection, Sound and light alarm, Exhaust fan, Explosion vent window, Inlet valve, Fire water injection port

Smart Energy

- Supports self-consumption, peak shifting, time-of-use, and battery backup
- Integrated self-developed BMS / EMS for flexibility

High Performance

- Small size, small footprint
- Long-lasting battery cycle life

Easy Operation

- Compact design saves space
- Cloud control with 24 / 7 monitoring



Key features and benefits

Technical Parameters	ESS70DE2	ESS89DE2	ESS107DE2
Battery Type	LFP		
Battery Module Capacity	17.92 kWh		
Cell Type	280 Ah		
Number of Modules	4	5	6
Total Battery Capacity	71.68 kWh	89.6 kWh	107.52 kWh
Nominal Voltage	256 V	320 V	384 V
Operating Voltage Range	228 ~ 288 V	285 ~ 360 V	342 ~ 432 V
Charge / Discharge Rate	Max. 0.5 C		
DoD	90%		
Technical Parameters			
Dimensions (W x H x D)	1050 x 2085 x 1371 mm		
Weight	< 1.2 T	< 1.35 T	< 1.5 T
Installation Site	Outdoor		
IP Protection	IP54		
Anti Corrosion Level	C4		
Operation Humidity	5% ~ 95% (No Condensing)		
Operation Temperature	-30°C ~ +50°C		
Max. Operation Altitude	≤ 3000 m		
Communication Port	Ethernet; CAN		
Communication Protocol	CAN; MODBUS TCP / IP		
Cooling Method	Air Conditioner		
Certification	UN38.3; MSDS; IEC 62040; IEC 62477;		
	IEC 62619; IEC 63056; IEC 61000-6-2/4		

Hybrid Inverter Parameters

Product Specifications	JAC20DP2	JAC25DP2	JAC29DP2	JAC30DP2	JAC40DP2	JAC49DP2	JAC50DP2
PV Side							
MPPT Voltage Range	250 ~ 950 Vdc (Max. 1000 Vdc)						
MPPT Rated Voltage	720 Vdc						
MPPT Rated Voltage (Full Load)	300 ~ 800 V	350 ~ 800 V	400 ~ 800 V	400 ~ 800 V	500 ~ 800 V	550 ~ 800 V	550 ~ 800 V
Max. PV Power	40 kWp	50 kWp	60 kWp	60 kWp	80 kWp	100 kWp	100 kWp
Number of MPPT / Strings per MPPT	4 / 2						
Max. Current per MPPT	45 A						
Battery Side							
Battery Voltage Range	200 ~ 950 Vdc						
Battery Rated Voltage Range	250 ~ 800 Vdc						
Max. DC Current	40 Adc x 2	50 Adc x 2	60 Adc x 2	60 Adc x 2	80 Adc x 2	80 Adc x 2	80 Adc x 2
Max. DC Power	22 kW	27.5 kW	33 kW	33 kW	44 kW	55 kW	55 kW
Number of DC Input	2						
AC Side (On Grid)							
Nominal AC Output Power	20 kW	25 kW	29.9 kW	30 kW	40 kW	49.9 kW	50 kW
Max. AC Output Power	27.5 kVA	27.5 kVA	29.9 kVA	33 kVA	44 kVA	49.9 kVA	55 kVA
Max. AC Input Power (Single-phase)	20 kW	25 kW	25 kW	25 kW	27.5 kW	37.5 kW	37.5 kW
Rated AC Current	29.0 A	36.3 A	43.4 A	43.5 A	58.0 A	72.4 A	72.5 A
Max. AC Current	87 A	110 A	110 A	110 A	120 A	163 A	163 A
AC Rated Voltage / Voltage Range	230 / 400 Vac; 220 / 380 Vac; 3L+PE+N; -15% ~ +10%						
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)						
THDi	< 3% (100% Load)						
Adjustable PF Range	-0.8 (Lagging) ~ 0.8 (Leading)						
Backup Output							
Nominal AC Voltage	230 / 400 V; 220 / 380 Vac; 3L+PE+N						
THDv	< 3% (Rated Power)						
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz						
Nominal AC Output Power	20 kW	25 kW	29.9 kW	30 kW	40 kW	49.9 kW	50 kW
Max. AC Output Power (Single-phase)	20 kW	25 kW	25 kW	25 kW	25 kW	25 kW	25 kW
Max. Output Current	87 A	110 A	110 A	110 A	110 A	110 A	110 A
Genset Input							
Max. Input Current	97.5%						
Protection							
Reverse DC Connection Protection	Yes						
Anti-Islanding Protection	Yes						
Over-Temperature Protection	Yes						
Grid Monitoring / Earthing Fault Detection	Yes						
Insulation Monitorin	Yes						
DC / AC Surge Protection	DC Type II; AC Type II						
AFCI	Optional						
Protection							
Dimensions (W x H x D)	635 x 950 x 315 mm						
Weight	> 80 kg						
Topology	Transformerless						
IP Protection	IP65						
Operation Temperature Range	-25 ~ 60 C (> 45 C Derating)						
Operation Humidity Range	0 ~ 100% (No Condensing)						
Cooling Method	Intelligent Air Cooling						
Max. Operation Altitude	4000 m (> 3000 m Derating)						
Communication Port	RS-485 / CAN						

BUSINESS

JOINT | ESS Series

JAC80DP2 / JAC100DP2 / JAC110DP2 / JAC125DP2
ESS197DE2 / ESS215DE2 / ESS233DE2



Key features and benefits

Outdoor Battery Cabinet Parameters

Technical Parameters	ESS197DE2	ESS215DE2	ESS233DE2
Battery Type	LFP		
Battery Module Capacity	17.92 kWh		
Cell Type	280 Ah		
Number of Modules	11	12	13
Total Battery Capacity	197.12 kWh	215.04 kWh	232.96 kWh
Nominal Voltage	704 V	768 V	832 V
Operating Voltage Range	627 ~ 792 V	684 ~ 864 V	741 ~ 936 V
Charge / Discharge Rate	0.5 C		
DoD	90%		
General Parameters			
Dimensions (W x H x D)	1300 x 2386 x 1442 mm		
Weight	< 1.5 T	< 2.45 T	< 2.5 T
Installation Site	Outdoor		
IP Protection	IP54		
Anti Corrosion Level	C4		
Operation Humidity	5% ~ 95% (No Condensing)		
Operation Temperature	-30°C ~ +50°C		
Max. Operation Altitude	≤ 3000 m		
Communication Port	Ethernet; CAN		
Communication Protocol	CAN; MODBUS TCP / IP		
Cooling Method	Air Conditioner		
Certificates	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4		

Hybrid Inverter Parameters

Product Specifications	JAC80DP2	JAC100DP2	JAC110DP2	JAC125DP2
MPPT Voltage Range	250 ~ 950 V (Max. 1000 V)			
MPPT Rated Voltage	720 V			
MPPT Rated Voltage (Full Load)	450 ~ 800 V	550 ~ 800 V	600 ~ 800 V	700 ~ 800 V
Max. PV Power	160 kWp	200 kWp	220 kWp	250 kWp
Number of MPPT / Strings per MPPT	8 / 2			
Max. Current per MPPT	45 A			
Battery Side				
Battery Voltage Range	200 ~ 950 V			
Battery Rated Voltage Range	250 ~ 800 V			
Max. DC Current	160 A (80 A x 2)			
Max. DC Power	88 kW	110 kW	121 kW	125 kW
Number of DC Inputs	2			

Versatile Application

- Ideal for factories, hotels, and farms with DC / AC-coupled solar-storage
- No external switching device is required, on/off-grid switching time about 10ms,support direct output backup load

Safe & Reliable

- 280ah large capacity cell,higher energy density
- Carbon monoxide detection, Sound and light alarm, Exhaust fan, Explosion vent window, Inlet valve, Fire water injection port

Smart Energy

- Supports self-consumption, peak shifting, time-of-use, and battery backup
- Integrated self-developed BMS / EMS for flexibility

High Performance

- Small size, small footprint
- Long-lasting battery cycle life

Easy Operation

- Compact design saves space
- Cloud control with 24 / 7 monitoring

AC Side (On Grid)				
Nominal AC Output Power	80 kW	100 kW	110 kW	125 kW
Max. AC Output Power	88 kVA	110 kVA	121 kVA	125 kVA
Rated AC Current	116 A	144 A	159 A	181 A
Max. AC Current	240 A	250 A	250 A	250 A
AC Rated Voltage / Voltage Range	230 / 400 Vac; 220 / 380 Vac; 3L+PE+N; -15% ~ +10%			
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)			
THDi	< 3% (100% Load)			
Adjustable PF Range	-0.8 (Lagging) ~ 0.8 (Leading)			
Backup Output				
Nominal AC Voltage	230 / 400 V; 220 / 380 Vac; 3L+PE+N			
THDv	< 3% (Rated Power)			
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz			
Nominal AC Output Power	80 kW	100 kW	110 kW	125 kW
Max. AC Output Power (Single-phase)	50 kW			
Max. Output Current	220 A			
Genset Input				
Max. Input Current	220 A			
Efficiency				
Max. Efficiency	98%			
Protection				
Reverse DC Connection Protection	Yes			
Anti-Islanding Protection	Yes			
Over-Temperature Protection	Yes			
Grid Monitoring / Earthing Fault Detection	Yes			
Insulation Monitoring	Yes			
DC / AC Surge Protection	DC Type II; AC Type II			
AFCI	Optional			

General Parameters	
Dimensions (W x H x D)	635 x 1100 x 330 mm
Weight	> 95 kg
Topology	Transformerless
IP Protection	IP65
Operation Temperature Range	-25 ~ 60 C (> 45 C Derating)
Operation Humidity Range	0 ~ 100% (No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	4000 m (> 3000 m Derating)
Communication Port	RS-485 / CAN

BUSINESS

JOINT | ESS Series

JAC50DP-ESS100DE / JAC50DP-ESS107DE
JAC50DP(2)-ESS197DE¹⁾



Safe & Reliable

- CATL LFP Battery Cell
- Double Fire Suppression System Design

Economical & Efficient

- Save CapEx, Expanding as Required
- Efficient and Energy-saving HVAC Design

Simple & User-friendly

- Pre-installed in Factory for Easy Installation on site
- Integrated BMS / EMS, Suitable for Various Applications
- Effortless Operation, Cloud Control

1) The ESS197DE battery cabinet supports both a 0.25 C configuration with a single JAC50DP and a 0.5 C configuration with two JAC50DP units.

Key features and benefits

Outdoor Battery Cabinet Parameters

Technical Parameters	ESS100DE	ESS107DE	ESS197DE
Battery Type	LFP		
Manufacturer	CATL		
Cell Type	100 Ah	280 Ah	280 Ah
Battery Module Capacity	5.12 kWh	17.92 kWh	17.92 kWh
Number of Modules	20	6	11
Total Battery Capacity	102. 4 kWh	107.52 kWh	197.12 kWh
Nominal Voltage	512 V	384 V	704 V
Operating Voltage Range	456 ~ 576 V	342 ~ 432 V	627 ~ 792 V
Charge / Discharge Rate	Max. 0.5 C		
DoD	90%		
General Parameters			
Dimensions (W x H x D)	1100 x 2380 x 1100 mm	1050 x 2000 x 1366 mm	1300 x 2380 x 1200 mm
Weight	< 1.5 T	< 1.45 T	< 2.5 T
Installation Site	Outdoor		
IP Protection	IP54		
Anti Corrosion Level	C4		
Operation Humidity	5% ~ 95% (No Condensing)		
Operation Temperature	-30°C ~ +50°C		
Max. Operation Altitude	≤ 3000 m		
Communication Port	Ethernet; CAN		
Communication Protocol	CAN; TCP		
Cooling Method	Air Conditioner		
Certification	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4		

Hybrid Inverter Parameters

Product Specifications	JAC50DP ³⁾
PV Side	
Max. Input Voltage	1000 V
MPPT Voltage Range	350 ~ 800 V
Max. Current per MPPT	36 A
Number of MPPT	3
Number of Inputs per MPPT	2
Battery Side	
Max. Input Voltage	750 V
Min. Input Voltage	350 V
DC Voltage at Nominal Operation	500 ~ 750 V
Max. DC Current	55 A x 2
Max. DC Input Power	55 kW ¹⁾
Number of DC Inputs	2

AC Side (On Grid)	
Nominal AC Output Power	50 kW
Max. AC Output Power	55 kVA
Max. AC Current	80 A
Nominal AC Voltage	400 V
AC Voltage Range	340 ~ 440 V
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)
THDi	< 3% (100% Load)
Adjustable PF Range	-1 (Lagging) ~ 1 (Leading)

AC Side (Off Grid) ²⁾	
Nominal AC Voltage	400 V
THDv	< 3% (Linear Load)
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz
Nominal AC Output Power	50 kW
Max. AC Output Power	55 kVA

Efficiency	
Max. Efficiency	97.5%

Protection	
Reverse Connection Protection	Yes
DC Switch	Yes
Over-Temperature Protection	Yes
Grid Monitoring / Earthing Fault Detection	Yes
Insulation Monitoring	Yes
DC / AC Surge Protection	DC Type II; AC Type III

General Parameters	
Dimensions (W x H x D)	650 x 715 x 325 mm
Weight	76 kg
Topology	Transformerless
IP Protection	IP65
Operation Temperature Range	-25 ~ 60 C (> 45 C Derating)
Operation Humidity Range	0 ~ 100% (No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	3000 m
Communication Port	RS-485 / CAN

Certificates	EN IEC 62109-1/2; IEC EN 62477-1; EN IEC 61000-6-2/4; EN IEC 61000-3-11;EN 61000-3-12; IEC 60068-2-1/2/14/30/52; IEC 61683; IEC 61727; IEC 62116; IEC 60529;C10/11; CEI 0-21; EN 50549-1; DIN VDE 0126-1-1; VDE-AR-N 4105; UNE 217001
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1) When JAC50DP is used with ESS107DE, Max. charge and discharge power is 40 kW.

2) For on / off-grid switching application, JTS100D or JTS250D automatic switching cabinet is needed.

3) KAC50DP is also compatible with ESS107DE2/ESS197DE2/ESS215DE2 battery cabinets.

BUSINESS

JOINT | ESS Series

JAC100DH / JAC125DH - ESS215DE / ESS233DE



Safe & Reliable

- CATL LFP Battery Cell
- Double Fire Suppression System Design

Economical & Efficient

- Save CapEx, Expanding as Required
- Efficient and Energy-saving HVAC Design

Simple & User-friendly

- Pre-installed in Factory for Easy Installation on site
- Integrated BMS / EMS, Suitable for Various Applications
- Effortless Operation, Cloud Control

Key features and benefits

Outdoor Battery Cabinet Parameters

Technical Parameters	ESS215DE2	ESS233DE2
Battery Type	LFP	
Battery Module Capacity	17.92 kWh	
Number of Modules	12	13
Total Battery Capacity	215 kWh	233 kWh
Nominal Voltage	768 V	832 V
Operating Voltage Range	682 ~ 864 V	741 ~ 936 V
Charge / Discharge Rate	0.5 C	
DoD	90%	
General Parameters		
Dimensions (W x H x D)	1300 x 2380 x 1442 mm	
Weight	< 2.5 T	
Installation Site	Outdoor	
IP Protection	IP54	
Anti Corrosion Level	C4	
Operation Humidity	5% ~ 95% (No Condensing)	
Operation Temperature	-30°C ~ +50°C	
Max. Operation Altitude	≤ 3000 m	
Communication Port	Ethernet; CAN	
Communication Protocol	CAN; TCP	
Cooling Method	Air Conditioner	
Certificates	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4	

Energy Storage Inverter Parameters

Product Specifications	JAC100DH ²⁾	JAC125DH ²⁾
Battery Side		
Max. Input Voltage	1500 V	
Min. Input Voltage	600 V	
DC Voltage at Nominal Operation	650 ~ 1400 V	
Max. DC Current	187 A	233.8 A
Max. DC Input Power	112 kW	140 kW
Number of DC Inputs	1	
AC Side (On Grid)		
Nominal AC Output Power	100 kW	125 kW
Max. AC Output Power	110 kW	137.5 kW
Max. AC Current	159 A	199 A
Nominal AC Voltage	400 Vac, 3P + PE (N)	
AC Voltage Range	400 Vac, (-15% + 10%)	
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)	
THDi	≤ 3% (Rated Power)	
Adjustable PF Range	> 0.99	
AC Side (Off Grid) ¹⁾		
Nominal AC Voltage	400 Vac, 3P + PE (N)	
THDv	< 1.5% (Resistive Load)	
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)	
Nominal AC Output Power	100 kW	125 kW
Max. AC Output Power	110 kVA	137.5 kVA
Efficiency		
Max. Efficiency	> 98%	
Protection		
Reverse Connection Protection	Yes	
DC Switch	Yes	
Over-Temperature Protection	Yes	
Insulation Monitoring	Yes	
DC / AC Surge Protection	Type II (DC side); Type II (AC side)	
General Parameters		
Dimensions (W x H x D)	650 x 952 x 310 mm	
Installation	Wall Mounted / Plug in	
Weight	93 kg	
Topology	Transformerless	
IP Protection	IP66	
Anti Corrosion Leve	C4	
Operation Temperature Range	-30 ℃ ~ 60 ℃ (> 45 ℃ Derating)	
Operation Humidity Range	0 ~ 100% (No Condensing)	
Cooling Method	Intelligent Air Cooling	
Max. Operation Altitude	4000 m (> 3000 m Derating)	
Communication Port	RS-485 / CAN	
Certificates	EN 50549-1:2019; EN 50549-2:2019; IEC 61000-6-2/4; IEC 62477-1: 2012; NC RFG; C10/C11; GB/T 34120; GB/T 34133:2023	

1) For off-grid application, STS250D automatic switching cabinet is needed.

2) JAC100DH / JAC125DH is also compatible with ESS197DE2 / ESS215DE2 / ESS233DE2 battery cabinets.



BUSINESS

JOINT | INVG SERIES

Three Phase / On-grid / 30–50 kW



Max. PV Voltage up to 1100 V
Type II DC / AC SPD



DC / AC Ratio up to 1.5
IP66 Protection



Compatible for Big Capacity PV Panel
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 98.7%
Smaller and Lighter

Key features and benefits

MODEL	JG30KT7	JG40KT7	JG50KT7
Input (DC)			
Recommended Max. PV Array Input Power @STC	45 kW	60 kW	45 kW
Max. DC Voltage	1100 V		
Nominal Voltage	620 V		
Start Voltage	200 V		
MPPT Voltage Range	120 ~ 1000 V		
MPPT Voltage Range (Full load)	550 ~ 850 V		
Number of MPPT	3	4	3
Max. Number of String per MPPT	2 / 2 / 1	2 / 2 / 1 / 1	2 / 2 / 1
Max. Input Current per MPPT	40 A / 40 A / 20 A	40 A / 32 A / 20 A / 20 A	40 A / 40 A / 20 A
Max. Short-circuit Current per MPPT	50 A / 50 A / 30 A	50 A / 40 A / 30 A / 30 A	50 A / 50 A / 30 A
Output (AC)			
Nominal AC Output Power	30000 W	40000 W	30000 W
Max. AC Output apparent Power	33000 VA	44000 VA	33000 VA
Max. AC Output active Power	33000 W	44000 W	33000 W
Nominal Voltage	400 / 230 V, 380 / 220 V, 3P+N+PE		
AC Grid Frequency Range	50 Hz / 60 Hz		
Max. Output Current	50 A	66.7 A	50 A
Power Factor (Φ)	-0.8 (Lagging) ~ 0.8 (Leading)		
THDi	< 3% (Nominal Power)		
Efficiency			
Max. Efficiency	98.8%		
Euro Efficiency	98%		

Protection devices			
DC Switch	Yes		
Output Over Current Protection	Yes		
Anti-islanding Protection	Yes		
DC Reverse Polarity Protection	Yes		
Insulation Detection	Yes		
DC / AC Surge Protection	DC: Type III; Type II optional; AC: Type III; Type II optional		
Residual Current Monitoring	Yes		
AFCI	Optional		
PID Recovery	Optional		
General Specifications			
Dimensions (W x H x D)	575 x 450 x 225 mm		
Weight	24.2 kg	27.7 kg	24.2 kg
Operating Temperature Range	-30 C ~ +60 C		
Cooling Type	Fan cooling		
Max. Operating Altitude	5000 m (> 4000 m derating)		
Max. Operating Humidity	0 ~ 100%		
AC Output Terminal Type	OT		
IP Class	IP66		
Topology	Transformerless		
PV Input Terminal Type	MC4		
Display	LCD		
Certification & Standard	EN/IEC 62109-1/2; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727;		



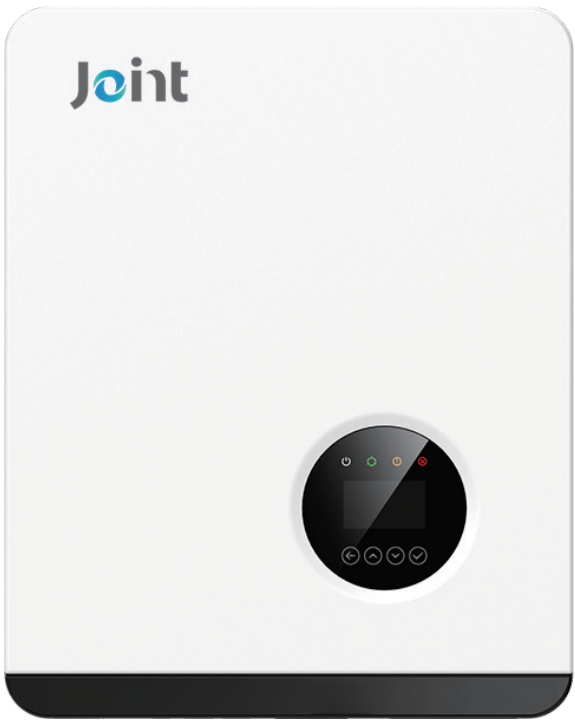
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BUSINESS

JOINT | INVG SERIES

Three Phase / On-grid / 30–40 kW



Max. PV Voltage up to 1100 V
Type II DC / AC SPD



DC / AC Ratio up to 1.5
IP66 Protection



Compatible for Big Capacity PV Panel
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 98.7%
Smaller and Lighter

Key features and benefits



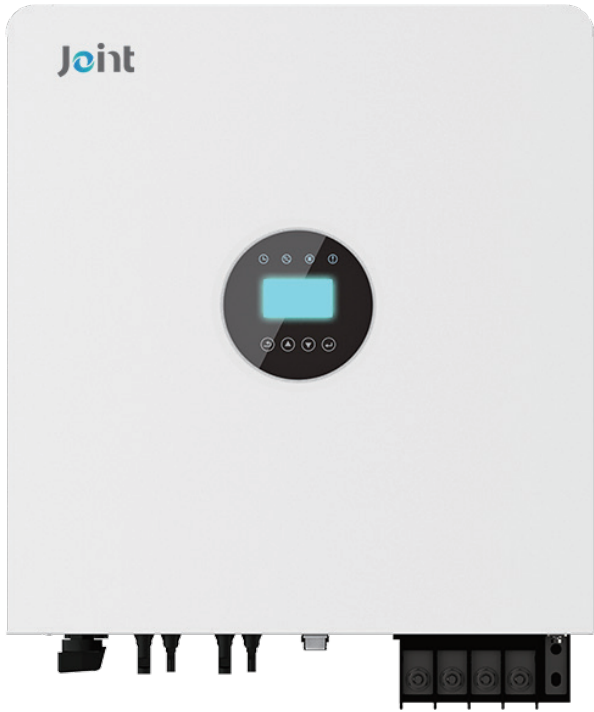
MODEL	JG-30KT-M1	JG-40KT-M1
Input (DC)		
Max. DC Voltage	1100 V	
Nominal Voltage	650 V	
Start Voltage	250 V	
MPPT Voltage Range	200 ~ 1000 V	
Number of MPPT Tracker	3	
Strings per MPPT Tracker	2	
Max. input Current per MPPT	30 A	
Max. Short-circuit Current per MPPT	10 A	
Output (AC)		
Nominal AC Output Power	30000 W	40000 W
Max. AC Apparent Power	33000 VA	44000 VA
Nominal AC Voltage	230 / 400 V, 3P+N+PE	
AC Grid Frequency Range	50 / 60 Hz (±5 Hz)	
Max. Output Current	47.8 A	63.8 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)	
THDi	< 3% (Nominal Power)	
Efficiency		
Max. Efficiency	98.7%	98.7%
Euro Efficiency	98.4%	98.4%
Protection devices		
DC Switch	Yes	
Output Over Current	Yes	
Anti-islanding Protection	Yes	
DC Reverse Polarity Protection	Yes	
String Fault Detection	Optional	
DC / AC Surge Protection	DC Type II; AC Type III; Type II Optional	
Insulation Detection	Yes	
AC Short Circuit Protection	Yes	
General Specifications		
Dimensions (W x H x D)	380 x 483 x 223 mm	380 x 483 x 227 mm
Weight	25.5 kg	32.5 kg
Operating Temperature Range	-25℃ ~ +60℃	
Cooling Type	Fan cooling	
Max. Operating Altitude	4000 m	
Max. Operating Humidity	0 ~ 100% (No condensation)	
AC Output Terminal Type	Connector	
IP Class	IP66	
Topology	Transformerless	
Communication	RS-485 / Wifi / Ethernet	
Display	LCD	
Certification & Standard	EN/IEC 62109-1/2; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; VDE-AR-N-4105; VDE 0126-1-1; CEI-021; G 99; C10/11; NB/T 32004-2018;	

* To be used with the SDM630MCT-V2 energy meter, users need to select and supply their own CT, with a specification of 1 A or 5A.

BUSINESS

JOINT | INVG SERIES

Three Phase / On-grid / 50–80 kW



Max. PV Voltage up to 1100 V
Type II DC / AC SPD



DC / AC Ratio up to 1.5
IP66 Protection



Reactive Power Control
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 98.6%
Smaller and Lighter

Key features and benefits



MODEL	JG50KT	JG60KT	JG80KT
Input (DC)			
Max. DC Voltage	1100 V		
Nominal Voltage	650 V		
Start Voltage	250 V		
MPPT Voltage Range	200 ~ 1000 V		
Number of MPPT	4		
Strings per MPPT	2	2	3
Max. input Current per MPPT	32 A	32 A	45 A
Max. Short-circuit Current per MPPT	48 A	48 A	60 A
Output (AC)			
Nominal AC Output Power	50000 W	60000 W	80000 W
Max. AC Apparent Power	55000 VA	66000 VA	88000 VA
Nominal AC Voltage	230 / 400 V, 3P+N+PE		
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)		
Max. Output Current (@220V)	83.3 A	100 A	127.5 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)		
THDi	< 3% (Nominal Power)		
Efficiency			
Max. Efficiency	98.7%	98.5%	98.6%
Euro Efficiency	98.4%	98.2%	98.3%
Protection devices			
DC Switch	Yes		
Output Over Current	Yes		
Anti-islanding Protection	Yes		
DC Reverse Polarity Protection	Yes		
String Fault Detection	Optional		
PID Recovery	Optional		
Night SVG	Optional		
DC / AC Surge Protection	Type II		
Residual Current Monitoring	Yes		
AC Short Circuit Protection	Yes		
General Specifications			
Dimensions (W x H x D)	548 x 540 x 289 mm		
Weight	48.7 kg	48.7 kg	52.2 kg
Operating Temperature Range	-25 C ~ +60 C		
Cooling Type	Fan cooling		
Max. Operating Altitude	4000 m		
Max. Operating Humidity	0 ~ 100% (No condensation)		
AC Output Terminal Type	OT Terminal		
IP Class	IP66		
Topology	Transformerless		
Communication	RS-485 / Wifi / Ethernet		
Display	LCD		
Certification & Standard	EN/IEC 62109-1; EN/IEC 62109-2; IEC/EN 61000-6-1; IEC/EN 61000-6-3; IEC/EN 61000-6-2;IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1;NC RfG; VDE-AR-N-4105; VDE 0126; CEI 0-21; NTS V2.1; UNE 217001; UNE 217002		

* To be used with the SDM630MCT-V2 energy meter, users need to select and supply their own CT, with a specification of 1 A or 5A.

BUSINESS

JOINT | INVG SERIES

Three Phase / On-grid / 125 kW



Max. PV Voltage up to 1100 V
Type II DC / AC SPD



DC / AC Ratio up to 1.5
IP66 Protection



Compatible for Big Capacity PV Panel
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 98.7%
Smaller and Lighter

Key features and benefits



MODEL	JG125KTL
Input (DC)	
Max. DC Voltage	1100 V
Max. Input Current per MPPT	45 A
Max. Short-circuit Current per MPPT	60 A
Start Voltage	300 V
MPPT Voltage Range	200 ~ 1000 V
Nominal Voltage	650 V
Number of MPPT	8
Strings per MPPT	2
Output (AC)	
Nominal AC Output Power	125 kW
Max. AC Apparent Power	125 kVA
Nominal AC Voltage	230 / 400 V, 3W +PE, 3W+N+PE
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)
Max. Output Current	181.2 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)
THDi	< 3% (Nominal Power)
Efficiency	
Max. Efficiency	98.7%
Euro Efficiency	98.5%
Protection devices	
DC Switch	Yes
Anti-islanding Protection	Yes
Output Over Current Protection	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Optional
DC / AC Surge Protection	DC Type II; AC Type II
AC Short Circuit Protection	Yes
AFCI Function	Optional
Night SVG Function	Optional
PID Recovery	Optional
Insulation Detection	Yes
Residual Current Monitoring	Yes
General Specifications	
Dimensions (W x H x D)	965 x 700 x 355 mm
Weight	85 kg
Operating Temperature Range	-30 ~ 60 C
Cooling Type	Fan Cooling
Max. Operating Altitude	5000 m (> 4000 m Derating)
Max. Operating Humidity	0 ~ 100%
AC Output Terminal Type	IP66
IP Class	≤ 80 dB
Topology	Transformerless
Communication	RS-485 / PLC / WIFI / Ethernet
Display	LED , Bluetooth + APP
Certification & Standard	IEC 62109-1/-2; EN IEC 61000-6-1/2/3/4; EN IEC 61000-3-11/12; EN IEC 62920;IEC 61727; IEC 62116; IEC 61683; IEC 60068-2-1/2/14/30; EU RoHS Directive;EN 50549-1/2; EN 50549-10; CEI 0-16; NC RFG; C10/11; UNE 217001;UNE 217002; NTS V2.1; PEA/MEA

* To be used with the SDM630MCTV2 energy meter, users need to select and supply their own CT, with a specification of 1 A or 5A.

BUSINESS

JOINT | INVG SERIES

Three Phase / On-grid / 75 kW



Max. PV Voltage up to 800 V
Type II DC / AC SPD



DC / AC Ratio up to 1.5
IP66 Protection



Compatible for Big Capacity PV Panel
WiFi Logger Standard / 4G Logger Optional



High Efficiency up to 98.7%
Smaller and Lighter

Key features and benefits



MODEL	JG75KTL
Input (DC)	
Max. DC Voltage	800 V
Max. Input Current per MPPT	45 A
Max. Short-circuit Current per MPPT	60 A
Start Voltage	300 V
MPPT Voltage Range	200 ~ 800 V
Nominal Voltage	370 V
Number of MPPT	9
Strings per MPPT	2
Output (AC)	
Nominal AC Output Power	75 kW
Max. AC Apparent Power	75 kVA
Nominal AC Voltage	127 V / 220 V, 3W+PE, 3W+N+PE
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)
Max. Output Current	196.9 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)
THDi	< 3% (Nominal Power)
Efficiency	
Max. Efficiency	98.7%
Euro Efficiency	98.3%
Protection devices	
DC Switch	Yes
Anti-islanding Protection	Yes
Output Over Current Protection	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Optional
DC / AC Surge Protection	DC Type II; AC Type II
AC Short Circuit Protection	Yes
AFCI Function	Optional
Night SVG Function	Optional
PID Recovery	Optional
Insulation Detection	Yes
Residual Current Monitoring	Yes
General Specifications	
Dimensions (W x H x D)	965 x 700 x 355 mm
Weight	85 kg
Operating Temperature Range	-30 ~ 60 °C
Cooling Type	Fan Cooling
Max. Operating Altitude	5000 m (> 4000 m Derating)
Max. Operating Humidity	0 ~ 100%
AC Output Terminal Type	IP66
IP Class	≤ 80 dB
Topology	Transformerless
Communication	RS-485 / PLC / WIFI / Ethernet
Display	LED, Bluetooth + APP
Certification & Standard	IEC 62109-1/-2; EN IEC 61000-6-1/2/3/4; EN IEC 61000-3-11/12; EN IEC 62920; IEC 61727; IEC 62116; IEC 61683; IEC 60068-2-1/2/14/30; EU RoHS Directive; PORTARIA No 140

* To be used with the SDM630MCTV2 energy meter, users need to select and supply their own CT, with a specification of 1 A or 5A.



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BUSINESS

JOINT | ACS SERIES

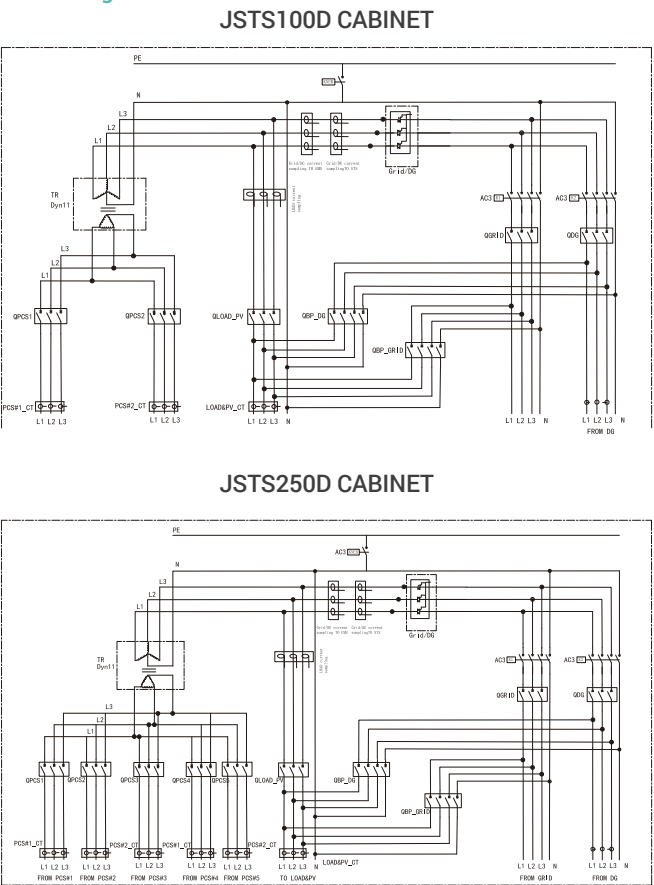
JSTS100D / JSTS250D
On-grid / Off-grid / 100–250 kVA



- On & Off-grid switching < 20 ms, support backup Load
- Integrated EMS, supports multiple operation modes
- Integrated Off-grid isolation transformer
- Supports multi-source access to Grid & PCS & DG power

Key features and benefits

Block Diagram:



Parameter	JSTS100D	JSTS250D
Rated Voltage	400 V	400 V
Rated Current	217 A	536 A
PCS Rated Current	144 A	360 A
Rated Frequency	50 / 60 Hz	50 / 60 Hz
PCS Rated Power	100 kVA	250 kVA
Max. Grid Input Power	150 kVA	370 kVA
Switch Time Between On / Off-grid	≤ 20 ms	≤ 20 ms
PCS Input Breaker	125 A x 2	125A x 5 / 250A x 2*
Max. Grid Input Breaker	250 A	630 A
DG Input Breaker	250 A	630 A
Load Breaker	250 A	630 A
Grid / DG Bypass Breaker	250 A	630 A x 2
Isolation Transformer	100 kVA	250 kVA
Lightning Protection	Type II	Type II
Protection Degree	IP54	IP54
Relative Humidity	0 ~ 100%	0 ~ 100%
Operating Temperature	-25°C ~ +45°C	-25°C ~ +45°C
Cooling Type	Air Cooling	Air Cooling
Dimensions (W x H x D)	900 x 2380 x 930 mm	1300 x 2380 x 930 mm
Weight	950 kg	1640 kg
Operating Altitude	≤ 3000 m	≤ 3000 m
Communication	RS-485 / 4G / Ethernet	RS-485 / 4G / Ethernet
Installation	Tower - type	Tower - type

* One JSTS100D can be connected to a maximum of two JAC500P.
** JSTS250D can connect a maximum of five JAC500P, and the JSTS250D-B is designed to connect a maximum of two JAC125DH units (following the same schematic as the JSTS100D).

