

 **SHENZHEN JINGFUYUAN TECH. CO.,LTD.**



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- » Grid-Connected Inverters
- » PV Accessories

- ✓ Grid-Connected Inverter Catalog
- Off-Grid Solutions Catalog
- UPS Catalog
- Telecom Power Supply Catalog
- Customized Product Catalog

Company Profile

Shenzhen JingFuYuan Tech. Co., Ltd. (Abbr. JFY), Founded in 2003, is a professional designer, manufacturer and solutions provider in power electronics field. Awarded as National High-tech Enterprise and certified to ISO9001: 2008 international quality system, JFY has 16000 m² of production plants and R&D laboratories in Shenzhen headquarter and marketing centers at home and abroad. Devoting to being a leading supplier with best products and services, JFY offers customers the high cost-effective products and integrated energy solutions with plentiful design and production experiences. The products cover a wide range of Solar Inverter (0.75kW~1.26MW), UPS, Telecom Power Supply, Off-grid Hybrid solar Power etc. Our products have been sold to more than 50 countries and areas. Their stable operation and excellent performance have been universally recognized by users across the world.



SUNLEAF Series Single-Phase String Inverter



SUNLEAF 1100TL~5000TL

Features

Reactive power control available

Optional zero net export or partial export to grid

High performance more reliable

- Higher precise MPPT
- Rapid MPPT tracking technology
- Special technology to prolong relay life 2~3 times
- Transformerless design with higher operation efficiency
- Excellent thermal performance
- High overload capability under most ambient conditions

Easy installation and maintenance

- compact and light weight
- Plug in and out monitoring module
- Aluminium outer cover and humanization design

Full data display and communications

- LCD full display system status
- Bright LED indicators
- PC software for remote monitoring and system trouble shooting
- Integrated RS232 serial communications. RS485, WiFi optional

Cost advantages

- Transformerless and fanless design cutting down cost
- Light weight and small dimension, to reduce shipping cost
- Low maintenance expense
- IP65 protection degree, suitable for outdoor installation, reducing construction cost
- DC switch optional

Certificates

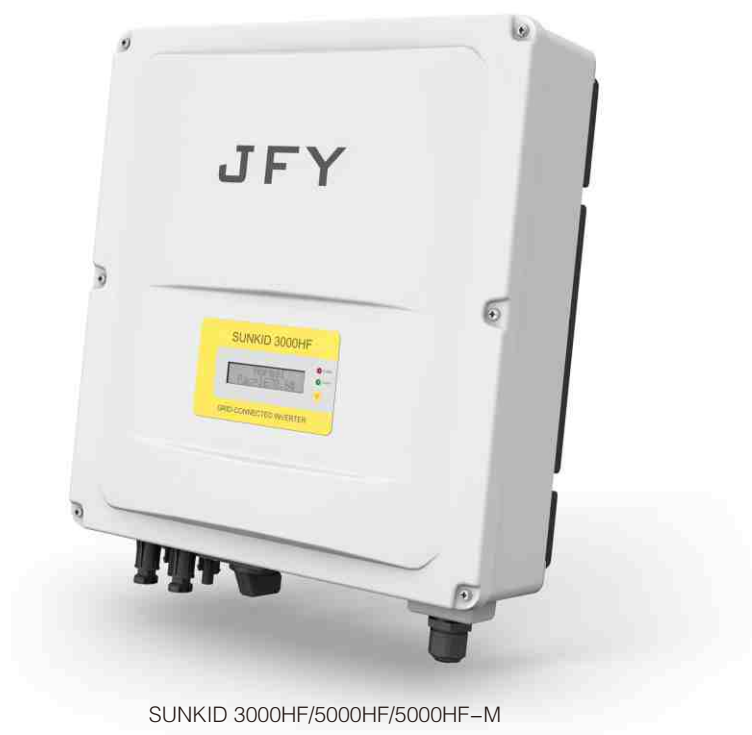
TUV, SAA, CE, CQC, AS/NZS 4777.2:2015, VDE 0126-1-1, EN62109-1/2, G83/2, G59/3, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (SUNLEAF)	1100TL	1500TL	2000TL	2500TL	3000TL	3600TL	4000TL	5000TL
Input (DC Side)								
Max. DC input power (W)	1250	1600	2200	2700	3300	3960	4400	5500
Max. DC voltage (Vdc)	450			500				
Start voltage (Vdc)	60	150						
MPPT operating range (Vdc)	50~450	100~450						
Number of parallel inputs	1					2		
Number of MPPT trackers	1							
Max. input current (A)	10			12	15	22		
Output (AC Side)								
Nominal output power (W)	1100	1500	2000	2500	3000	3600	4000	5000/4950
Max. output power (W)	1100	1500	2000	2500	3000	3600	4000	5000/4950
Nominal output current (A)	4.7	6.5	8.6	10.8	13	15.7	17.4	21.5
Max. output current (A)	5.3	7.9	10.5	12.5	15	17.3	20	25
Nominal AC output voltage (Vac)	230							
AC Output voltage range (Vac)*	170~280				180~280			
AC Grid frequency range (Hz)*	50/60±5							
Power factor (cosφ)	Default 1 lagging, adjustable 0.8 (leading)~0.8 (lagging)							
THDI	<3% (at nominal output power)							
System								
Max. efficiency	96.5%	96.5%	97.0%	97.0%	97.2%	97.3%	97.6%	97.6%
Euro. efficiency	95.5%	95.5%	96.2%	96.1%	96.4%	96.5%	97.0%	97.1%
MPPT efficiency	99.8%	99.8%	99.8%	99.8%	99.6%	99.6%	99.6%	99.6%
Operating temperature (°C)	-25~+60							
Noise (typical) [dB (A)]	≤25							
Consumption at night (W)	0							
Electrical isolation	Transformerless							
Cooling concept	Natural cooling							
Degree of protection	IP65							
Communication	RS232 (RS485/WiFi/GPRS optional)							
Dimension (W*D*H mm)	290*140*295			340*150*350			364*164*390	
Weight (kg)	7.5			12	13.5	14	14.5	

*AC grid voltage range and frequency range depend on local standards.

SUNKID Series Single-Phase High-frequency isolation String Inverter



SUNKID 3000HF/5000HF/5000HF-M

Features

Reactive power control available

Optional zero net export or partial export to grid

Cost advantages

- Light weight and small dimension, reducing shipping cost
- IP65 protection degree, suitable for outdoor installation, reducing construction cost
- Low maintenance expense
- DC switch optional

Easy and affordable to install

- Lightweight and compact size
- Includes a lightweight portable bracket simplifying installation
- Firm IP65 inverter enclosure allows outdoor application

High performance string inverters

- From 3.0kW to 5.0kW
- Wide PV input voltage range
- Superior PV energy harvest
- Excellent thermal performance
- High overload capability under most ambient conditions
- Built-in high frequency transformer

Full data display and communications

- LCD display energy data
- Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system troubleshooting
- Integrated Rs232

Certificates

TUV, SAA, CE, CQC, AS4777.2/3, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83/2, G59/3, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (SUNKID)	3000HF	5000HF	5000HF-M
Input Data(DC side)			
Max. DC power(W)	3400	5500	5500
Max. DC Voltage(Vdc)	600		
Start Voltage(Vdc)	100~500		
Number of parallel inputs	2		
Number of MPPT track	1	1	2
Max. input power of per MPPT(W)	3400	5500	2750
Max. input current [total(A)]	15	20	2*13
Output Data (AC side)			
Nominal output power (W)	3000	5000	5000
Max. output power (W)	3000	3000	5000
Nominal output current (A)	13	21.5	21.5
AC phase	Single Phase		
Max. output current(A)	15	25	25
AC voltage range(Vac)	180~275		
Nominal AC voltage(Vac)	230		
AC frequency range(Hz)	50±5		
Power factor(cosφ)	Default 1 lagging, adjustable 0.9 (leading)~0.9 (lagging)		
Harmonic distortion(THDI)	<3% (at nominal output power)		
Efficiency			
Max. efficiency	95.6%	95.6%	95.5%
Euro efficiency	94.9%	94.8%	94.8%
MPPT efficiency	99.8%	99.8%	99.8%
General Data			
Operating temperature (°C)	-25~+60		
Noise emission (typical) [dB (A)]	≤25		
Degree of protection	IP65		
Power consumption at night (W)	0		
Cooling concept	Natural cooling		
Dimensions (W*D*H mm)	358*153*380	358*153*430	358*153*430
Net weight(kg)	15.5	18	18
Communication	RS232 (WiFi/GPRS/RS485 optional)		
Electrical isolation	High-frequency transformer		

*AC grid voltage range and frequency range depend on local standards.

JSI- Series Single-Phase String Inverter



JSI-750TL, JSI-1100TL



JSI-1500TL, JSI-5000TL

Features

High performance string inverters

- From 0.75kW to 5.0kW
- Wide PV input voltage range
- Rapid MPPT tracking technology
- Superior PV energy harvest
- Transformerless design with higher operation efficiency
- Excellent thermal performance
- High overload capability under most ambient conditions

Full data display and communications

- LCD display energy data
- Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system trouble shooting
- Integrated RS232 serial communications

Easy and affordable to install

- Lightweight and compact size
- Firm IP65 inverter enclosure allows outdoor application

Cost advantages

- Transformerless design cutting down cost
- Light weight and small dimension, to reduce shipping cost
- Low maintenance expense
- IP65 protection degree, suitable for outdoor installation, reducing construction cost

Certificates

TUV, SAA, CE, CQC, AS4777.2/3, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83/2, G59/3, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (JSI-)	750TL	1100TL	1500TL	2000TL	2500TL	3000TL	3600TL	5000TL
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Input (DC Side)

Max. DC input power (W)	900	1300	1750	2300	2800	3300	4000	5200
Max. DC voltage (Vdc)	450			500			550	
Start voltage (Vdc)	60		150					
MPPT operating range (Vdc)	50~450		100~450				100~500	
Number of parallel inputs	1			2			3	
Number of MPPT trackers	1							
Max. input current (A)	10	10	12	13	14.5	20	21	22.5

Output (AC Side)

Nominal output power (W)	750	1100	1500	2000	2500	3000	3600	5000
Max. output power (W)	750	1100	1650	2200	2500	3200	3600	5000
Nominal output current (A)	3.3	4.8	6.5	8.7	10.8	13	15.7	21.7
Max. output current (A)	4.0	5.7	7.9	10.5	12.5	15.7	16	24
Nominal AC output voltage (Vac)	230							
AC Output voltage range (Vac)*	185~265							
AC Grid frequency range (Hz)*	50/60±5							
Power factor (cosφ)	>0.99							
THDI	<3% (at nominal output power)							

System

Max. efficiency	96.5%	96.5%	96.5%	97.0%	97.0%	97.2%	97.3%	97.6%
Euro. efficiency	95.4%	95.4%	95.5%	96.2%	96.1%	96.4%	96.5%	97.0%
MPPT efficiency	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%
Operating temperature (°C)	-25~+60							
Noise (typical) [dB (A)]	≤25							
Consumption at night (W)	0							
Electrical isolation	Transformerless							
Cooling concept	Natural cooling							
Degree of protection	IP65							
Communication	RS232 (WiFi optional)							
Dimension (W*D*H mm)	290*150*295		345*152*315	345*152*355		345*152*385		345*152*505
Weight (kg)	7.0	7.5	12	13		15		19

*AC grid voltage range and frequency range depend on local standards.

SUNSEED Series Single-Phase Dual MPPT String Inverter



SUNSEED 3000TL~5000TL

Features

- Reactive power control available
- Optional zero net export or partial export to grid

Cost advantages

- Transformerless design cutting down the cost
- Light weight and small dimension, reducing shipping cost
- IP65 protection degree, suitable for outdoor installation, reducing construction cost
- Low maintenance expense
- DC switch optional

Easy and affordable to install

- Lightweight and compact size
- Includes a lightweight portable bracket simplifying installation
- Firm IP65 inverter enclosure allows outdoor application

High performance string inverters

- From 3.0kW to 5.0kW
- Wide PV input voltage range
- Rapid MPPT tracking technology
- Two MPPT trackers
- Superior PV energy harvest
- Transformerless design with higher operation efficiency
- Excellent thermal performance
- High overload capability under most ambient conditions

Full data display and communications

- LCD display energy data
- Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system troubleshooting
- Integrated RS232 serial communications. RS485, WiFi optional

Certificates

TUV, SAA, CE, CQC, AS4777.2:2015, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83/2, G59/3, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (SUNSEED)	3000TL	4000TL	5000TL
Input Data (DC side)			
Max. DC power (W)	3120	4160	5200
Max. DC voltage (Vdc)	500		
MPPT Operating range (Vdc)	100~450		
Number of parallel inputs	2		
Number of MPPT trackers	2		
Max. input power of per MPPT (W)	2000	2300	3000
Max. input current [total (A)]	IN1:11.3/IN2:11.3	IN1:13.0/IN2:13.0	IN1:15.0/IN2:15.0
Output Data (AC side)			
Nominal output power	3000	4000	5000/4950
Max. Output power	3000	4000	5000/4950
Nominal output current (A)	13.0	17.4	21.5
Max. output current (A)	15.0	20.0	25.0
Nominal AC voltage (Vac)	230		
AC voltage range (Vac)*	170~280		
Nominal AC grid frequency (Hz)	50		
AC grid frequency range (Hz)*	50/60 ± 5		
Power factor (cos φ)	Default 1 lagging, adjustable 0.8 (leading)~0.8 (lagging)		
Harmonic distortion(THDI)	<3% (at nominal output power)		
Efficiency			
Max. efficiency	97.0%	97.1%	97.2%
Euro efficiency	96.4%	96.5%	96.5%
MPPT efficiency	99.8%	99.8%	99.8%
General data			
Operating temperature range (°C)	-25~+60		
Noise emission (typical) [dB (A)]	≤ 25		
Power consumption at night (W)	0		
Electrical isolation	Transformerless		
Cooling concept	Natural cooling		
Degree of protection	IP65		
Communication	RS232 (RS485/Wifi optional)		
Dimensions (W*D*H mm)	358*153*380		
Net weight (kg)	14	14.5	15

*AC grid voltage range and frequency range depend on local standards.

SUNTWINS Series Dual MPPT String Inverter



SUNTWINS 3300TL~5000TL

Features

High performance string inverters

- From 3.3kW to 5.0kW
- Wide PV input voltage range
- Rapid MPPT tracking technology
- Two MPPT trackers
- Superior PV energy harvest
- Transformerless design with higher operation efficiency
- Excellent thermal performance
- High overload capability under most ambient conditions

Full data display and communications

- LCD display energy data
- Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system troubleshooting
- Integrated RS232 serial communications

Cost advantages

- Transformerless design cutting down the cost
- Light weight and small dimension, reducing shipping cost
- IP65 protection degree, suitable for outdoor installation, reducing construction cost
- Low maintenance expense

Easy and affordable to install

- Lightweight and compact size
- Includes a lightweight portable bracket simplifying installation
- Firm IP65 inverter enclosure allows outdoor application

Certificates

TUV, SAA, CE, CQC, AS4777.2/3, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83, G59, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (SUNTWINS)	3300TL	4000TL	5000TL
Input (DC Side)			
Max. DC input power (W)	3450	4160	5200
Max. DC voltage (Vdc)	500		
Start voltage (Vdc)	150		
MPPT operating range (Vdc)	100~450		
Number of inputs	2		
Number of MPPT trackers	2		
Max. Input power per MPPT (W)	2000	2300	3000
Max. input current (A)	2*10	2*13	2*15
Output (AC Side)			
Nominal output power (W)	3300	4000	5000
Max. output power (W)	3300	4000	5000
Nominal output current (A)	14.3	17.4	21.6
Max. output current (A)	16.5	20.0	25.0
Nominal AC output voltage (Vac)	230		
AC output voltage range (Vac)*	185~265		
AC grid frequency range (Hz)*	50/60±5		
Power factor (cosφ)	>0.99		
THDI	<3% (at nominal output power)		
Efficiency			
Max. efficiency	97.3%	97.5%	97.5%
Euro. efficiency	96.5%	96.8%	96.7%
MPPT efficiency	99.6%	99.6%	99.6%
System			
Operating temperature (°C)	-25~+60		
Noise (typical) [dB (A)]	≤25		
Consumption at night (W)	0		
Electrical isolation	Transformerless		
Cooling concept	Natural cooling		
Degree of protection	IP65		
Communication	RS232 (WiFi optional)		
Dimension (W*D*H mm)	345*152*435		
Weight (kg)	16.5	18	18

*AC grid voltage range and frequency range depend on local standards.

SUNTREE Series Three-Phase String Inverter



SUNTREE 5000TL~30000TL

Features

High performance string inverters

- From 5.0KW to 30.0KW
- Famous power components
- Superior PV energy harvest
- Excellent thermal performance
- Transformerless design with higher operation efficiency
- High overload capability under most ambient conditions

Full data display and communications

- LCD display energy data
- Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system troubleshooting
- Integrated RS232 serial communications. RS485, WiFi optional

Easy and affordable to install

- Lightweight and compact size
- Wide MPPT voltage range allows more flexible module selections
- Includes a lightweight portable bracket simplifying installation
- Firm IP65 inverter enclosure allows outdoor application

Cost advantages

- Transformerless design cutting down the cost
- Light weight and small dimension, reducing shipping cost
- Low maintenance expense and low power loss when breakdown
- DC switch optional

Certificates

TUV, SAA, CE, CQC, AS4777.2/3, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83, G59, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (SUNTREE)	5000TL	6000TL	8000TL	10000TL	12000TL	15000TL	17000TL	20000TL	30000TL
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Input (DC Side)

Max. DC input power (W)	5500	6600	9000	11200	13300	16500	19000	22000	33000
Max. DC voltage (Vdc)	900			1000					
Start voltage (Vdc)	250								
MPPT operating range (Vdc)	250~720			250~800					
Number of inputs	2			4		6		10	
Number of MPPT trackers	2								
Max. input power per MPPT (W)	3500	4000	5000	6000	7000	8500	9500	11000	16500
Max. input current (A)	2*10	2*12	2*16	2*22	2*24	2*30	2*32	2*35	2*33

Output (AC Side)

Nominal output power (W)	5000	6000	8000	10000	12000	15000	17000	20000	30000
Max. output power (W)	5000	6000	8000	10000	12000	15000	17000	20000	30000
Rated output current (A)	7.3	8.7	11.6	15.2	17.4	22.7	25.8	30.3	44.5
Max. output current (A)	7.9	9.5	12.7	16.0	19.4	25.0	28.3	33.3	48.0
Nominal output voltage (Vac)	400								
Output voltage range (Vac)*	360~440								
Grid frequency range (Hz)*	50/60±5								
Power factor	Default 1 lagging, adjustable 0.9 (leading)~0.9 (lagging)								
THDI	<3% (at nominal output power)								

Efficiency

Max. efficiency	97.6%	97.8%	98.1%	98.1%	98.1%	98.1%	98.1%	98.2%	98.1%
Euro. efficiency	96.7%	96.9%	97.3%	97.5%	97.6%	97.5%	97.6%	97.6%	97.5%
MPPT efficiency	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%

System

Operation temperature (°C)	-25~+60								
Noise [dB (A)]	≤25			≤50				≤65	
Consumption at night (W)	0								
Electrical isolation	Transformerless								
Cooling concept	Natural cooling					Fan cooling			
Degree of protection	IP65								
Communication	RS232 (RS485/WiFi optional)			RS485/RS232 (WiFi optional)					
Dimension (W*D*H mm)	470*165*560			470*165*585		470*165*670		580*235*800	
Weight (kg)	32			35		50		65	

*AC grid voltage range and frequency range depend on local standards.

SUNTREE Series Three-Phase String Inverter



SUNTREE 5000TL+~50000TL+

Features

High performance string inverters

- From 5.0kW to 50.0kW
- Famous power components
- Superior PV energy harvest
- Excellent thermal performance
- Transformerless design with higher operation efficiency
- High overload capability under most ambient conditions
- Prevent PID modules, be effective to suppress attenuation of solar modules

Easy and affordable to install

- Lightweight and compact size
- Wide MPPT voltage range allows more flexible module selections
- Includes a lightweight portable bracket simplifying installation
- Firm IP65 inverter enclosure allows outdoor application

Full data display and communications

- LCD display energy data
- Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system troubleshooting
- Integrated RS232 serial communications. RS485, WiFi optional

Cost advantages

- Transformerless design cutting down the cost
- Light weight and small dimension, reducing shipping cost
- Low maintenance expense and low power loss when breakdown
- DC switch optional

Certificates

TUV, SAA, CE, CQC, AS4777.2:2015, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83, G59, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (SUNTREE)	5000TL+	6000TL+	8000TL+	10000TL+	12000TL+	15000TL+
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Input (DC Side)

Max. DC input power (W)	5150	6150	8200	11200	13300	16500
Max. DC voltage (Vdc)	900		1000			
Start voltage (Vdc)	250					
MPPT operating range (Vdc)	250~720		250~800			
Number of inputs	2			4		
Number of MPPT trackers	2					
Max. input power per MPPT (W)	3000	3500	4500	6000	7000	8500
Max. input current (A)	2*10.5	2*10.5	2*10.5	2*11	2*18	2*24

Output (AC Side)

Nominal output power (W)	5000	6000	8000	10000	12000	15000
Max. output power (W)	5000	6000	8000	10000	12000	15000
Rated output current (A)	7.6	9.1	12.1	15.2	18.2	22.7
Max. output current (A)	8.4	10	13.3	16.7	20	25
Nominal output voltage (Vac)	380/400					
Output voltage range (Vac)*	360~440					
Grid frequency range (Hz)*	50/60±5					
Power factor	Default 1 lagging, adjustable 0.8 (leading)~0.8 (lagging)					
THDI	<3% (at nominal output power)					

Efficiency

Max. efficiency	97.7%	97.8%	98.0%	98.1%	98.1%	98.1%
Euro. efficiency	96.8%	96.9%	97.3%	97.5%	97.5%	97.5%
MPPT efficiency	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%

System

Operation temperature (°C)	-25~+60					
Noise [dB (A)]	≤25					
Consumption at night (W)	0					
Electrical isolation	Transformer less					
Cooling concept	Natural cooling					
Degree of protection	IP65					
Communication	RS485/RS232 (WiFi/GPRS optional)					
Dimension (W*D*H mm)	450*355*180			528*411*209		688*486*259
Weight (kg)	18			24.5		50

*AC grid voltage range and frequency range depend on local standards.

SUNTREE Series Three-Phase String Inverter

Technical data

Model (SUNTREE)	17000TL+	20000TL+	25000TL+	30000TL+	50000TL+	28000TL+
Input (DC Side)						
Max. DC input power (W)	19000	22000	27000	33000	53000	30000
Max. DC voltage (Vdc)	1000					
Start voltage (Vdc)	250					
MPPT operating range (Vdc)	250~800					
Number of inputs	4		6		8	6
Number of MPPT trackers	2		3		4	3
Max. input power per MPPT (W)	9500	11500	10000	11000	13500	10000
Max. input current (A)	2*25	2*22	3*18	3*18	4*20	3*18
Output (AC Side)						
Nominal output power (W)	17000	20000	25000	30000	50000	28000
Max. output power (W)	17000	20000	25000	30000	50000	28000
Rated output current (A)	25.8	30.3	38	45.6	76	33.7
Max. output current (A)	28.4	33.3	41.8	50.2	83.6	37.1
Nominal output voltage (Vac)	380/400					480
Output voltage range (Vac)*	360~440					432~528
Grid frequency range (Hz)*	50/60±5					
Power factor	Default 1 lagging, adjustable 0.8 (leading)~0.8 (lagging)					
THDI	<3% (at nominal output power)					
Efficiency						
Max. efficiency	98.2%	98.2%	98.2%	98.3%	98.1%	98.1%
Euro. efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
MPPT efficiency	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%
System						
Operation temperature (°C)	-25~+60					
Noise [dB (A)]	≤25					
Consumption at night (W)	0					
Electrical isolation	Transformer less					
Cooling concept	Natural cooling					
Degree of protection	IP65					
Communication	RS485/RS232 (WiFi/GPRS optional)					
Dimension (W*D*H mm)	688*486*259		801.5*501*259	786.5*476*277.3	950*560*290	801.5*501*259
Weight (kg)	50		60	55	68	60

*AC grid voltage range and frequency range depend on local standards.

SUNFOREST Series Central Commercial Inverter



Features

Advanced performance

- With the advanced system intelligence, highly speed MPPT technology, industrial-grade engineering and complete fault protections, Sunforest series central commercial inverters maximize system uptime and power production, even in harshest environments
- DSP-controlled IGBT circuitry to achieve high efficiency, reliability and low installing cost
- Sunforest KT series grid-tied inverters are integrated with an isolation transformer
- Sunforest KTL series grid-tied inverters have a max efficiency of 98.6% without a transformer
- Multiple work mode, SVG (Static Var Generator) mode, Anti-Reverse Power control mode

Optimal MPPT technology

- Rapid and accurate control boost PV plant KWH yield
- Provides a wide range of operation voltage

Utility-ready features

- Open communication protocol, compatible with any third-party monitoring system and easily integrated into SCADA systems
- Remote control of real and reactive power
- ZVRT (Zero voltage ride through)
- Power factor control
- Simplified grid interconnection

Increased PV plant yield

- Rapid and accurate MPPT control increases PV plant KWH yield by extending the production window of arrays, enabling them to operate at optimal voltage and current levels for longer periods of time-even in varied sunlight conditions to maximize efficiency and enable you to get the most from your investment

Safety

- Built-in DC and AC disconnected switches

Certificates

CQC, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, Zero Voltage Ride Through

SUNFOREST Series Central Commercial Inverter

Technical data

Model (SUNFOREST)	50KT	75KT	100KT
Input (DC Side)			
Max. DC input Power (kW)	58	87	115
Max. DC voltage (Vdc)	1000		
MPPT operating range (Vdc)	450~820 (start voltage 470Vdc)		
Number of parallel inputs	2		
Number of MPPT trackers	1		
Max. input current (A)	128	200	250
Output (AC Side)			
Nominal output power (kW)	50	75	100
Max. output power (kW)	55	82.5	110
Nominal output current (A)	72	108	144
Max. output current (A)	80	120	158
Nominal AC output voltage (Vac)	400		
AC output voltage range (Vac)*	360~440		
AC grid frequency range (Hz)*	50±5		
Power factor (cosφ)	0.9 (leading)~0.9 (lagging)		
THDI	<3% (at nominal output power)		
Efficiency			
Max. efficiency	96.5%	96.8%	97.1%
Euro. efficiency	95.8%	96.2%	96.4%
MPPT efficiency	99.9%	99.9%	99.9%
System			
Operating temperature (°C)	-25~+60 (derated power above 50°C)		
Altitude (m)	6000 (derated power above 3000m)		
Noise (typical) [dB (A)]	≤65		
Consumption at night (W)	<100		
Electrical isolation	Transformer		
Cooling concept	Fan cooling		
Degree of protection	IP20		
Communication	RS485		
Dimension (W*D*H mm)	600*650*1450	650*700*1550	800*700*1700
Weight (kg)	520	650	810

*AC grid voltage range and frequency range depend on local standards.

Technical data

Model (SUNFOREST)	150KT	175KT	250KTL	250KT
Input (DC Side)				
Max. DC input Power (kW)	172	202	285	
Max. DC voltage (Vdc)	1000			
MPPT operating range (Vdc)	450~820 (start voltage 470Vdc)			
Number of parallel inputs	4	4	5	5
Number of MPPT trackers	1			
Max. input current (A)	380	500	600	
Output (AC Side)				
Nominal output power (kW)	150	175	250	
Max. output power (kW)	165	192	275	
Nominal output current (A)	217	254	535	362
Max. output current (A)	238	280	589	400
Nominal AC output voltage (Vac)	400	400	270	400
AC output voltage range (Vac)*	360~440	360~440	243~297	360~440
AC grid frequency range (Hz)*	50±5			
Power factor (cosφ)	0.9 (leading)~0.9 (lagging)			
THDI	<3% (at nominal output power)			
Efficiency				
Max. efficiency	97.2%	97.2%	98.4%	97.3%
Euro. efficiency	96.5%	96.6%	98.0%	96.8%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
System				
Operating temperature (°C)	-25~+60 (derated power above 50°C)			
Altitude (m)	6000 (derated power above 3000m)			
Noise (typical) [dB (A)]	≤65			
Consumption at night (W)	<100			
Electrical isolation	Transformer	Transformer	Transformerless	Transformer
Cooling concept	Fan cooling			
Degree of protection	IP20			
Communication	RS485			
Dimension (W*D*H mm)	900*900*1850	900*900*1850	1000*900*1850	1400*900*1850
Weight (kg)	1100	1150	890	1750

*AC grid voltage range and frequency range depend on local standards.

SUNFOREST Series Central Commercial Inverter

Technical data

Model (SUNFOREST)	500KTL	500KT	630KTL	630KT
Input (DC Side)				
Max. DC input Power (kW)	570		715	
Max. DC voltage (Vdc)	1000			
MPPT operating range (Vdc)	450~820 (start voltage 470Vdc)		500~820 (start voltage 520Vdc)	
Number of parallel inputs	12			
Number of MPPT trackers	1			
Max. input current (A)	1200		1400	
Output (AC Side)				
Nominal output power (kW)	500		630	
Max. output power (kW)	550		693	
Nominal output current (A)	915	725	1155	910
Max. output current (A)	1006	800	1270	1000
Nominal AC output voltage (Vac)	315	400	315	400
AC output voltage range (Vac)*	283~347	360~440	283~347	360~440
AC grid frequency range (Hz)*	50±5			
Power factor (cosφ)	0.9 (leading)~0.9 (lagging)			
THDI	<3% (at nominal output power)			
Efficiency				
Max. efficiency	98.6%	97.3%	98.6%	97.5%
Euro. efficiency	98.1%	96.6%	98.2%	97.0%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
System				
Operating temperature (°C)	-25~+60 (derated power above 50°C)			
Altitude (m)	6000 (derated power above 3000m)			
Noise (typical) [dB (A)]	≤65			
Consumption at night (W)	<100			
Electrical isolation	Transformerless	Transformer	Transformerless	Transformer
Cooling concept	Fan cooling			
Degree of protection	IP20			
Communication	RS485			
Dimension (W*D*H mm)	1500*900*2100	2700*900*2200	1700*900*1850	2900*900*1850
Weight (kg)	1427	3050	1677	3300

*AC grid voltage range and frequency range depend on local standards.

One-Stop PV Power Plant



Features

- Built-in two 500/630KW high efficient inverter with perfect power distribution, firefighting protection, monitoring system to meet requirements to connect grid more rapidly security
- IP54 containerized design, easy to transport and install
- DC power distribution and cooling integrated design, reducing cost of whole system
- Comply the zero-voltage ride trough standard
- SVG running mode controlling reactive power compensation at night
- Transformerless design, the highest efficiency 98.6% (European efficiency 98.2%)
- Active and reactive power adjustable according to the grid command
- Strong capability to the harsh grid environment, LCL filter, low output harmonic
- Perfect protection to ensure reliable operation of the system
- Auxiliary heating optional, normal running at ambient temperature of minus 35 degrees

SP-500/1000/1260KTL with the four integrated functions as DC distribution, inverting-inversion and system monitoring, this solution of inverter cells is able to control from the DC output of PV modules to the grid-connection in one-stop, and has significant advantages at system integration, environmental adaptation, overall investment, speedy installation and debugging, etc. The integrated design of power distribution and inverting-inversion is based on the high performance inverter and distribution cabinet, and the total solution will reduce the system loss and bring higher equipment compatibility, hence improve the power generating efficiency and the system stability. The field installation of this product is more convenient and quick since it's adapted to integral hoisting with shorter duration of construction, lower cost, smaller construction difficulty and risks. This overall solution of inverter cells is standardized and able to be debugged and grid-connected rapidly.

One-Stop PV Power Plant

Technical data

Model (SP)	1000KTL	1260KTL
DC Side		
Max. DC input power (kW)	1157	1410
Max. DC voltage (Vdc)	1000	1000
MPPT operating range (Vdc)	500~820 (start voltage 520Vdc)	500~820 (start voltage 520Vdc)
Number of parallel inputs	20	20
Number of MPPT trackers	2	2
Max. input current (A)	2400	2800
AC Side		
Nominal output power (kW)	1000	1260
Max. output power(kW)	1100	1400
Nominal output current (A)	1830	2310
Max. output current (A)	2016	2566
Nominal AC output voltage (Vac)	315	315
AC output voltage range (Vac)*	283~347	283~347
AC grid frequency range (Hz)*	50±5	50±5
Power factor (cosφ)	0.9 (leading)~0.9 (lagging)	0.9 (leading)~0.9 (lagging)
THDI	<3% (normal output power)	<3% (normal output power)
Efficiency		
Max. efficiency	98.6%	98.6%
Euro. efficiency	98.1%	98.2%
MPPT efficiency	99.9%	99.9%
System		
Operating temperature (°C)	-35~+55	-35~+55
Noise (typical) [dB (A)]	≤65	≤65
Consumption at night (W)	<200	<200
Electrical isolation	Transformerless	Transformerless
Cooling concept	Fan cooling	Fan cooling
Degree of protection	IP54	IP54
Communication	RS485	RS485
Dimension (W*D*H)(mm)	3500*3000*2700	3500*3000*2700
Weight (kg)	7200	7700

*AC grid voltage range and frequency range depend on local standards.

PV Combiner Box



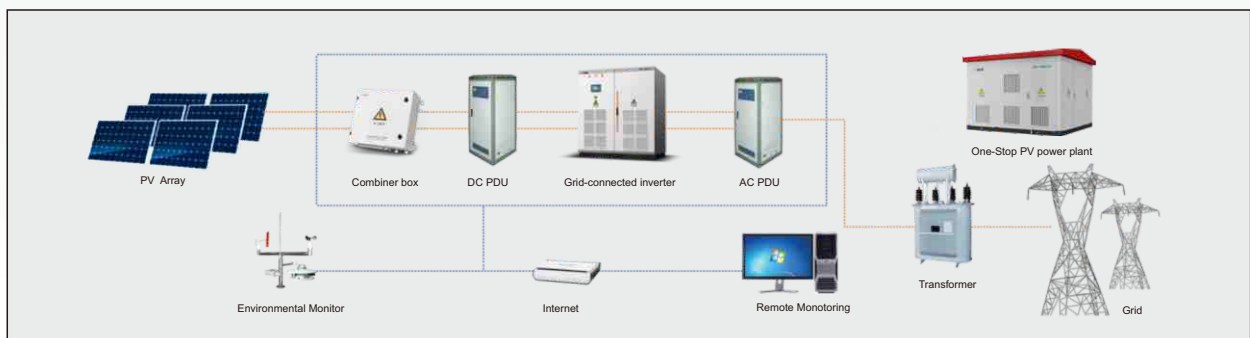
Features

For large scale PV generation system, combiner box can reduce the cables between PV modules and inverters, increase reliability of system and make maintenance easier. SCR/SDR series combine box is designed with high performance and reliability, provides total system solutions with our grid-tied inverters. It ensures safety of PV system and reduces the installation time.

- Remote monitor, RS485 communication (optional)
- Firm IP65 inverter enclosure allows outdoor application
- Comply with the requirement of outdoor installation
- Wide DC input voltage, maximum input voltage 1000VDC
- Special DC fuse for PV system
- Special SPD for PV system
- Easy to maintain
- Customized on demand (dimension, strings, DC fuse etc)

Certificates

CQC



PV Combiner Box

Model Explanation
SCR/SDR-8 M
 ① ② ③④
 ① PV combiner box without anti-reverse diode
 ② PV combiner box with anti-reverse diode
 ③ Max. input: 8 string reverse
 ④ Smart combiner box with monitoring function

Technical data

Model (non- smart)	SCR/SDR-8	SCR/SDR-10	SCR/SDR-12	SCR/SDR-14	SCR/SDR-16	SCR/SDR-18
Max. DC input voltage	1000					
Number of input string	8	10	12	14	16	18
Current per DC fuse of string (A)	15					
Output terminal	PG21					
Protection level	IP65					
Environment temperature (°C)	-25~60					
Environment humidity	0~99%					
Output DC breaker	yes					
Lighting module	yes					
PV input reverse-polarity protection	Diode (Optional)					
Communication	no					
Dimension (W*H*D mm)	400*214*400 (SCR)	500*214*400 (SCR)		550*214*400 (SCR)		600*214*400 (SCR)
	420*218*480 (SDR)	469*224*480 (SDR)		599*225*500 (SDR)		629*225*500 (SDR)
Weight (kg)	16 (SCR)/17 (SDR)	17 (SCR)/21 (SDR)		18 (SCR)/25 (SDR)		19 (SCR)/26 (SDR)
Model (smart)	SCR/SDR-8M	SCR/SDR-10M	SCR/SDR-12M	SCR/SDR-14M	SCR/SDR-16M	SCR/SDR-18M
Max. DC input voltage	1000					
Number of input string	8	10	12	14	16	18
Current per DC fuse of string (A)	15					
Output terminal	PG21					
Protection level	IP65					
Environment temperature (°C)	-25~60					
Environment humidity	0~99%					
Output DC breaker	yes					
Lighting module	yes					
Smart Monitoring	String current inspection		yes			
	SPD failure inspection		yes			
	Output DC breaker inspection		yes			
PV input reverse-polarity protection	Diode (Optional)					
Communication	RS485					
Dimension (W*H*D mm)	430*213*500 (SCR)	480*214*500 (SCR)		550*213*500 (SCR)		620*214*500 (SCR)
	500*225*550 (SDR)	540*225*550 (SDR)		620*225*550 (SDR)		669*230*550 (SDR)
Weight (kg)	17 (SCR)/18 (SDR)	20 (SCR)/25 (SDR)		24 (SCR)/28 (SDR)		25 (SCR)/31 (SDR)

Solar WiFi/Ethernet Data Logger

Technical data

Inverter communication	RS485
Remote communication	WiFi (802.11 b/g)/Ethernet
Max. communication range (km)	<1
Communication rate (bps)	9600
WiFi communication range	300m in outdoor open area without obstruction
WiFi frequency (Hz)	2.4G
Data collection intervals	5minutes
Firmware updates	Serial/Wireless
Data access	Serial/WiFi point-to-point/remote server
Status display	4LEDs

Electrical

Input voltage (V)	DC5
Static power consumption(W)	<1.6
Max. power consumption (W)	<2.5

Environmental

Operating temperature (°C)	-10~+65
Operating humidity	10%~90% relative humidity, no condensation
Storage temperature (°C)	-40~+85
Storage humidity	<40%
Protection class	IP21

Physical

Installation method	Wall mounted or flatwise
Certificates	FCC\CE\RoHS
Dimension (W*D*H mm)	110*80*26
Weight (g)	108



WiFi Kit

Using wireless communication function, WiFi transfers information from the inverter to the remote server by router. Then customers obtain the information from the server by clients, such as PC, mobile phone, PAD and so on.

Features

- A variety of communication methods available, including Ethernet, WiFi
- Can be connected to up to 15 inverters
- Quick installation and easy operation with "Plug & Play" function
- Easy access data via Internet anywhere and anytime, no additional software required
- Graphical display of PV system data on data logger

Solar EM Environmental Monitor

Compact, easy to install. Acquisition a variety of environmental parameters, modular design, and the user can select the appropriate demand function to achieve cost optimization. RS485 communication and selection criteria MODBUS communications connect networking.



Technical data

Model	WiFi Plug
Communication	
Inverter communication	RS232
Remote communication	WiFi (802.11 b/g/n)
Max. supporting number of inverter	1pc
Communication rate (bps)	9600
WiFi communication range	100m in outdoor open area without obstruction
Data collection intervals (min)	5 (default)/1~15 (Optional)
Firmware updates	Wireless
Data access	WiFi point-to-point/remote server
Preferences setting	Web server
Power source	Powered by RS232 port on inverter

Environmental

Operating temperature (°C)	-25~+60
Storage temperature (°C)	-40~+80
Protection class	IP65

General

Certificates	FCC\CE\C-tick
Dimension (W*D*H mm)	80*85*22

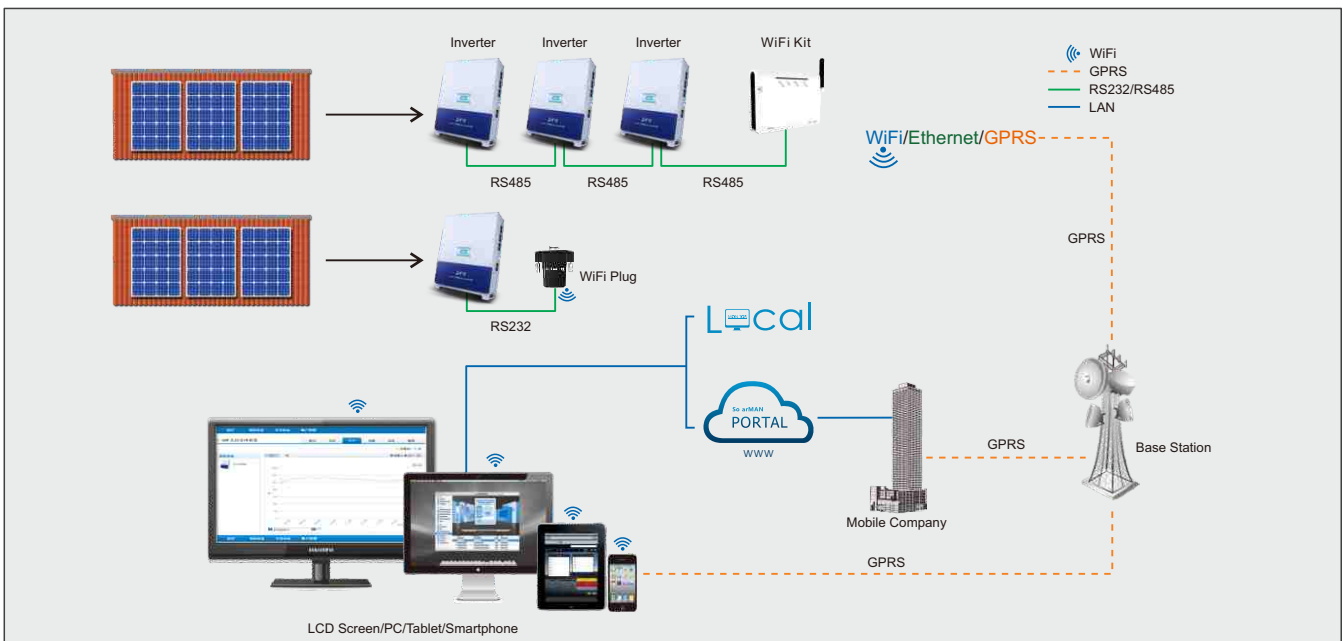


The new generation of WiFi Plug enables operation under AP and STA mode simultaneously, which means that users can directly get access to the internal Web Server via WiFi, and at the same time the module can connect to remote portal via WiFi, enabling users to monitor PV systems anytime and anywhere via Internet.

Features

- Connect with inverters on its RS232 port, no additional external hardware
- WiFi (802.11 b/g/n) communication according to user requirements
- Remote monitoring via SolarMAN Portal
- Able to upgrade software of inverter via WiFi
- Optimized configuration interface makes setting procedures easier and faster

JFY WiFi Plug & WiFi Kit Monitoring System



Solardog Wireless Monitor

Features

- Integrated large LCD display
- Bar chart display for historical output energy of PV system, for example, daily, monthly and yearly output energy
- Advanced wireless communication technology (Up to 120 meters in open area)
- Monitor up to 5 inverters, convenient to monitor small commercial or residential PV system
- Real time monitoring for output power of PV system, operation value and carbon saving data
- Error recorder and warning buzzer
- Integrated with earth faulty alarm



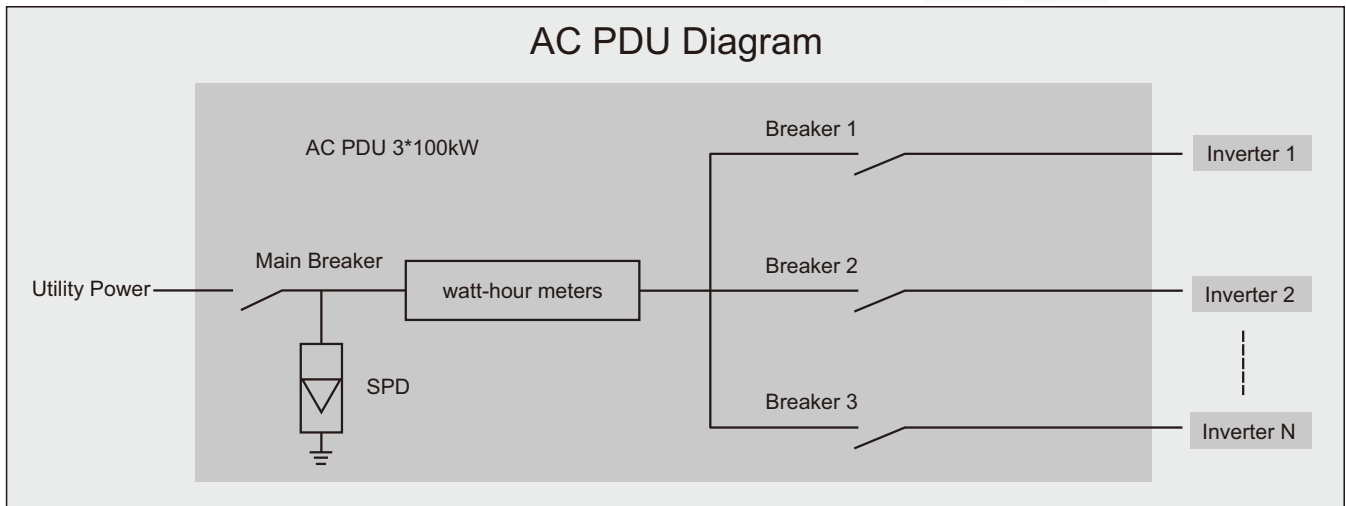
Technical data

Name	Receiver Unit	Emitter Unit
Power source	AAA*3	Powered by RS232 port on inverter
Working current (mA)	<30	<120
Wireless transmission mode	433MHZ FSK	433MHZ FSK
Communication distance (m)	100	100
LCD display	90*76MM digital display	\
Installing type	\	Plug on RS232 port on inverter, each EU per inverter
Monitor the max. number of inverter	5	\
Max. number of connected emitter unit	5	\
Real-time power display	Yes	\
E-total display	Yes	\
E-history date display	Yes	\
Date display	D/M/Y	\
Time display	Yes	\
Error alarm	Yes/LCD display& warning buzzer	\
Stand-by current (mA)	<1	\
IP protection type	IP20 (Indoor type)	IP65 (Outdoor type)
Operation temperature range (°C)	0~+50	-25~+60
Warranty (years)	2	2

AC Power Distribution Unit

Features

- > Power: 50kW~1260kW
- > Simplify the wiring of solar system
- > Easy to maintain and operate
- > Increase reliability and safety of system
- > Customized on demand (dimension, internal configuration)



Technical data

Model	JFY-ACB300K	JFY-ACB500K	JFY-ACB1000K
Max. number of connecting inverter	3pcs*100kW	2pcs*250kW	2pcs*500kW
Nominal AC output power (kW)	300	500	1000
Max. AC output current (A)	476	1200	1800
Wiring	Copper bars		
SPD	Superior SPD		
Isolation	3000Vac, 1min		
Protection Level	IP20		
Dimension (W*D*H mm)	900*600*1800	1100*600*1800	1300*600*1800
Weight (kg)	155	190	250

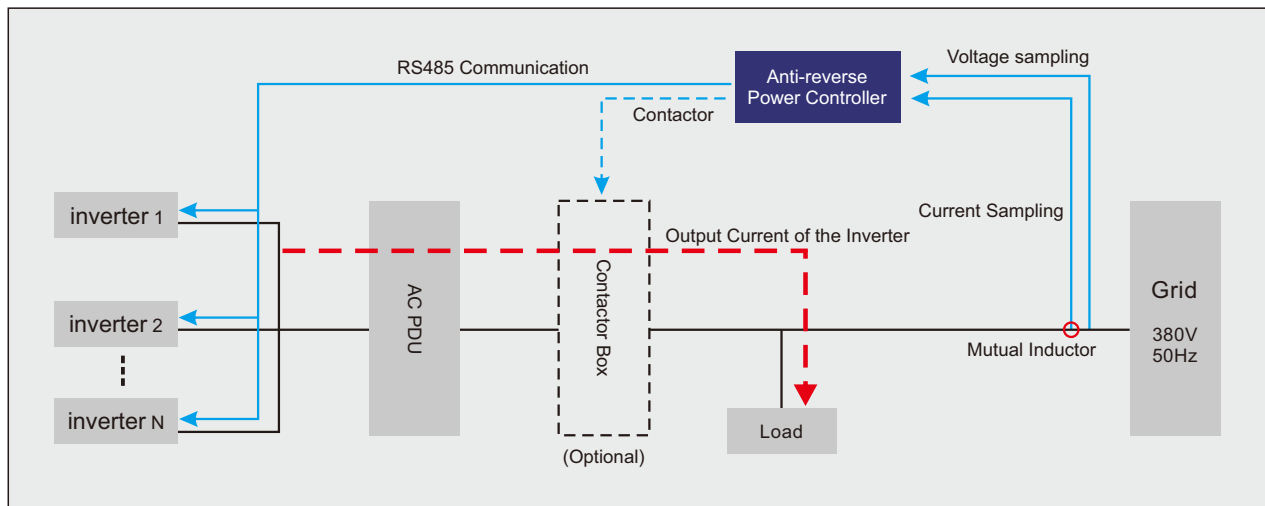
Anti-reverse Power Controller

Features

Anti-reverse power controller make sure that the solar energy supply the local load instead of the public utility by monitoring the voltage and current of the utility interface. When solar energy flows to the utility, it will reduce the output current of inverters; if the communication has problems or other system failures happen; it will totally stop the connection between the inverters and the utility power grid by disconnecting the breaker of AC PDU or turning off the inverter by preset program.



Anti-reverse Power Diagram



Technical data

Power (kW)	5~500
Number of connect inverter	Maximum 31pcs
Auxi-power	AC 220V 50Hz
No load power (W)	<50
Communication	RS485 communication
Display	LCD
Cooling	Air cooling
Operation temperature (°C)	-25~+55
Protection level	IP20
Precision	0.5S (0.5 CT)
Dimension (W*H*D mm)	239*215*42
Weight (kg)	1.8

References

30MW PV Project in Xinjiang Production and Construction Corps



6.5MW Photovoltaic Grid Project in Hefei



30MW PV Project in Alashan Economic Development Zone



5MW Photovoltaic Power Generation in Weifang



Guodian 2.58MW Photovoltaic Project in Beijing



2.5MW Rooftop PV Grid Project in Guangzhou Industrial Park



500kW On-grid PV Project in Shenzhen North Railway Station



300kW Rooftop PV Project in Shenzhen Industrial Park



1MW Rooftop PV Project in Jiangsu Electric Power



1.5MW Distributed Generation Project in Hohhot Middle School



The First 10kW Household PV Project in China Southern Power Grid



The First 10kW Household PV Project in Sichuan



3MW Rooftop Photovoltaic Project in Jiangxi Province



100kW Rooftop Photovoltaic Project in Yingtan



20kW Household PV Project in Nanjing



5kW PV Project of Country Garden in Jingmen



The First 2kW Household PV Project in Ningxia



2kW Household Distributed Photovoltaic Project in Shandong



10kW Distributed Photovoltaic Project in Handan



12kW Distributed Photovoltaic Project in Huaihua



1.2MW Rooftop Distributed PV Project in Bangkok, Thailand



100kW PV Project in NSW, Australia



100kW PV Project in Sydney, Australia



40kW Temple Project in Ban Nong Hua Khu City



Export to more than 50 Countries



30MW PV generation station in Inner Mongolia, China

Total system capacity 30MW utilizing a total of 29 sets of 1 MW inverter units.

Each megawatt inverter unit contains two sets SUNFORST-500KT concentrated photovoltaic grid-connected inverters and housings with related intelligent ventilation systems, fire protection, lighting and power distribution systems.

The project is expected to generate 30 thousand kWh per hour in peak sunlight conditions. The project generates in excess of 31 million kWh average annual, saves more than 12,000 tons of standard coal and reduces carbon dioxide emissions of nearly 45,000 tons.

The Datang company is a large enterprise group directly managed by the state.

This project cooperation with Datang demonstrates JFY's product performance, quality, capability and commitment to research and development.

30MW demonstration PV generation station in Luoyang, China

30MW total installed capacity requiring a total investment of 330 million yuan. The project is installed on the roof of 25 manufacturing buildings with a total area of over 350,000 square meters.

The project includes 26 PV power stations and is expected to be generating 30 thousand kWh per hour in peak sun conditions. The project generates more than 31 million kWh average annual and saves more than 12,000 tons of standard coal, reducing carbon dioxide emissions of nearly 45,000 tons.

15,000 units off-grid power in northwest area of China

In the remote northwest area there is an electricity shortage which presents a major inconvenience to the residents. 500VA off-grid power by JFY utilizes built-in solar controllers and inverters to provide easy-to-use household-sized units for each family to bring stable power to meet their lighting, heating and other basic household appliance needs.

150,000 units string inverter in global market

First home PV system in China

5.2MW PV generation system in Jiangxi, China

5MW PV generation system in Shandong, China

6.5MW PV generation system in Hefei, China

2.5MW PV generation station in Guangzhou, China

1.63MW PV generation station in Shandong, China

2.58MW PV grid-connected system in Beijing, China

Demonstration PV system in Jiangxi, China

Demonstration PV system on roof in Jiangxi, China

Distribution PV system in Hohhot, China

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Some Honors and Certifications

National Hi-tech Enterprise
Honest And Trustworthy Enterprise
China Top 10 PV Inverter Enterprise

Patents



Certificates



TV Reports



China central television reported

China guangxi TV reported

China gansu TV reported

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