

R6 SERIES


THREE PHASE INVERTER




R6-3K-T2 | R6-4K-T2 | R6-5K-T2 | R6-6K-T2
 R6-8K-T2 | R6-10K-T2 | R6-10K-T2-B
 R6-12K-T2 | R6-15K-T2

AFCI AFCI (Optional)

16A String current up to 16A

 Max. Efficiency 98.6%

 Built-in AC & DC SPD

110% 110% AC overloading

 24/7 load monitoring (Optional)

| MODEL | R6-3K-T2 | R6-4K-T2 | R6-5K-T2 | R6-6K-T2 | R6-8K-T2 | R6-10K-T2 | R6-10K-T2-B | R6-12K-T2 | R6-15K-T2 |
|-------------------------------------|--|----------|----------|----------|----------|-----------|-------------|-----------|-----------|
| DC Input | | | | | | | | | |
| Max. PV Array Power [Wp]@ STC | 4500 | 6000 | 7500 | 9000 | 12000 | 15000 | 15000 | 18000 | 22500 |
| Max. DC Voltage [V] | 1100 | | | | | | | | |
| MPPT Voltage Range [V] | 160 ~ 950 | | | | | | | | |
| Rated DC Voltage [V] | 600 | | | | | | | | |
| Start Voltage [V] | 180 | | | | | | | | |
| Min. DC Voltage [V] | 150 | | | | | | | | |
| Max. DC Input Current [A] | 16/16 | | | | | | | | |
| Max. DC Short Circuit Current [A] | 19.2/19.2 | | | | | | | | |
| No. of Strings per MPPT | 1/1 | | | | | | | | |
| No. of MPPT | 2 | | | | | | | | |
| DC Switch | Integrated | | | | | | | | |
| AC Output | | | | | | | | | |
| Rated AC Power [W] | 3000 | 4000 | 5000 | 6000 | 8000 | 10000 | 10000 | 12000 | 15000 |
| Max. Apparent Power*[VA] | 3300 | 4400 | 5500 | 6600 | 8800 | 11000 | 10000 | 13200 | 15000 |
| Rated Output Current [A]@ 230Vac | 4.4 | 5.8 | 7.3 | 8.7 | 11.6 | 14.5 | 14.5 | 17.4 | 21.8 |
| Max. Output Current [A] | 5.0 | 6.7 | 8.4 | 10.0 | 13.4 | 16.7 | 15.2 | 20.0 | 22.8 |
| Rated AC Voltage/ Range [V] | 3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/ 312 ~ 485 | | | | | | | | |
| Rated Output Frequency/ Range [Hz] | 50.60/ 45 ~ 55.55 ~ 65 | | | | | | | | |
| Power Factor [cos φ] | 0.8 leading ~ 0.8 lagging | | | | | | | | |
| Total Harmonic Distortion [THDi] | <3% | | | | | | | | |
| Efficiency | | | | | | | | | |
| Max. Efficiency | 98.2% | 98.5% | 98.5% | 98.5% | 98.6% | 98.6% | 98.6% | 98.6% | 98.6% |
| Euro Efficiency | 97.8% | 98.2% | 98.2% | 98.2% | 98.3% | 98.3% | 98.3% | 98.4% | 98.4% |
| Protection | | | | | | | | | |
| Internal Overvoltage Protection | Integrated | | | | | | | | |
| DC Insulation Resistance Detection | Integrated | | | | | | | | |
| Grid Monitoring | Integrated | | | | | | | | |
| GFCI Monitoring | Integrated | | | | | | | | |
| DCI Monitoring | Integrated | | | | | | | | |
| AC Short Circuit Current Protection | Integrated | | | | | | | | |
| AC Grounding Detection | Integrated | | | | | | | | |
| DC Surge Protection | Integrated | | | | | | | | |
| AC Surge Protection | Integrated | | | | | | | | |
| Anti-islanding Protection | Integrated | | | | | | | | |
| AFCI Protection | Optional | | | | | | | | |
| Interface | | | | | | | | | |
| DC Connection | MC4/ H4 | | | | | | | | |
| AC Connection | Plug-in Connector | | | | | | | | |
| Display | LED+APP | | | | | | | | |
| Communication Port | RS232(USB) +RS485(RJ45) +DRM | | | | | | | | |
| Communication | Wi-Fi/ Ethernet/ 4G(Optional) | | | | | | | | |
| Load Monitoring | 24/7 (Optional) | | | | | | | | |
| General Parameters | | | | | | | | | |
| Topology | Non-isolated | | | | | | | | |
| Consumption at Night [W] | <1 | | | | | | | | |
| Operating Temperature Range | -40°C to +60°C (45°C to 60°C with derating) | | | | | | | | |
| Cooling Method | Natural Convection | | | | | | | | |
| Ambient Humidity | 0~100% Non-condensing | | | | | | | | |
| Altitude | 4000m (>3000m Power Derating) | | | | | | | | |
| Noise [dBA] | <35 | | | | | | | | |
| Ingress Protection | IP65 | | | | | | | | |
| Mounting | Wall Mounting | | | | | | | | |
| Dimensions [H*W*D][mm] | 391*532*190 | | | | | | | | |
| Weight [kg] | 15 | | | | | | | | |
| Warranty [Year] | 5/10/15/20 | | | | | | | | |
| Applicable Standard | EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1 | | | | | | | | |

Remarks: * According to C10/C11, Max. Apparent Power= Rated AC Power.

R6 SERIES


THREE PHASE INVERTER



R6-15K-T2-32 | R6-17K-T2-32 | R6-20K-T2-32
R6-22K-T2-32 | R6-25K-T2-32

AFCI AFCI (Optional)

16A String current up to 16A

 Max. Efficiency 98.8%

 Built-in AC & DC SPD

110% 110% AC overloading

 24/7 load monitoring (Optional)

| MODEL | R6-15K-T2-32 | R6-17K-T2-32 | R6-20K-T2-32 | R6-22K-T2-32 | R6-25K-T2-32 |
|-------------------------------------|--|--------------|--------------|--------------|--------------|
| DC Input | | | | | |
| Max. PV Array Power [Wp]@STC | 22500 | 25500 | 30000 | 33000 | 37500 |
| Max. DC Voltage [V] | 1100 | | | | |
| MPPT Voltage Range [V] | 180 ~ 1000 | | | | |
| Rated DC Voltage [V] | 600 | | | | |
| Start Voltage [V] | 200 | | | | |
| Min. DC Voltage [V] | 180 | | | | |
| Max. DC Input Current [A] | 32/32 | | | | |
| Max. DC Short Circuit Current [A] | 38.4/38.4 | | | | |
| No. of Strings per MPPT | 2/2 | | | | |
| No. of MPPT | 2 | | | | |
| DC Switch | Integrated | | | | |
| AC Output | | | | | |
| Rated AC Power [W] | 15000 | 17000 | 20000 | 22000 | 25000 |
| Max. Apparent Power** [VA] | 16500 | 18700 | 22000 | 24200 | 25000 |
| Rated Output Current [A]@230Vac | 21.7 | 24.6 | 29 | 31.9 | 36.2 |
| Max. Output Current [A] | 25 | 28.3 | 33.3 | 36.7 | 37.9 |
| Rated AC Voltage/Range [V] | 3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485 | | | | |
| Rated Output Frequency/Range [Hz] | 50,60/45 ~ 55,55 ~ 65 | | | | |
| Power Factor [cos φ] | 0.8 leading ~ 0.8 lagging | | | | |
| Total Harmonic Distortion [THDi] | <3% | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 98.8% | | | | |
| Euro Efficiency | 98.5% | | | | |
| Protection | | | | | |
| Internal Overvoltage Protection | Integrated | | | | |
| DC Insulation Resistance Detection | Integrated | | | | |
| Grid Monitoring | Integrated | | | | |
| GFCI Monitoring | Integrated | | | | |
| DCI Monitoring | Integrated | | | | |
| AC Short Circuit Current Protection | Integrated | | | | |
| AC Grounding Detection | Integrated | | | | |
| DC Surge Protection | Integrated | | | | |
| AC Surge Protection | Integrated | | | | |
| Anti-islanding Protection | Integrated | | | | |
| AFCI Protection | Optional | | | | |
| Interface | | | | | |
| DC Connection | MC4/H4 | | | | |
| AC Connection | Plug-in Connector | | | | |
| Display | LED+APP | | | | |
| Communication Port | RS232(USB)+RS485(RJ45)+DRM | | | | |
| Communication | Wi-Fi/Ethernet/4G(Optional) | | | | |
| Load Monitoring | 24/7 (Optional) | | | | |
| General Parameters | | | | | |
| Topology | Non-isolated | | | | |
| Consumption at Night [W] | <1 | | | | |
| Operating Temperature Range | -40°C to +60°C (45°C to 60°C with derating) | | | | |
| Cooling Method | Intelligent Fan cooling | | | | |
| Ambient Humidity | 0-100% Non-condensing | | | | |
| Altitude | 4000m (>3000m Power Derating) | | | | |
| Noise [dBA] | <50 | | | | |
| Ingress Protection | IP65 | | | | |
| Mounting | Wall Mounting | | | | |
| Dimensions [H*W*D] [mm] | 429.5*558*234.5 | | | | |
| Weight [kg] | 22.5 | | | | |
| Warranty [Year] | 5/10/15/20 | | | | |
| Applicable Standard | EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1 | | | | |

Remarks: **According to C10/C11, Max. Apparent Power= Rated AC Power.

R6 SERIES

THREE PHASE INVERTER



R6-25K-T3-32 | R6-30K-T3-32 | R6-33K-T3-32
 R6-36K-T3-32 | R6-36K-T4-32 | R6-40K-T4-32
 R6-50K-T4-32

AFCI AFCI (Optional)

16A String current up to 16A

Max. Efficiency 98.8%

Built-in AC & DC SPD

110% 110% AC overloading

24/7 load monitoring (Optional)

| MODEL | R6-25K-T3-32 | R6-30K-T3-32 | R6-33K-T3-32 | R6-36K-T3-32 | R6-36K-T4-32 | R6-40K-T4-32 | R6-50K-T4-32 |
|-------------------------------------|--|--------------|--------------|---------------------|--------------|--------------|--------------|
| DC Input | | | | | | | |
| Max. PV Array Power [Wp]@STC | 37500 | 45000 | 49500 | 54000 | 54000 | 60000 | 75000 |
| Max. DC Voltage [V] | 1100 | | | | | | |
| MPPT Voltage Range [V] | 180 ~ 1000 | | | | | | |
| Rated DC Voltage [V] | 600 | | | | | | |
| Start Voltage [V] | 200 | | | | | | |
| Min. DC Voltage [V] | 180 | | | | | | |
| Max. DC Input Current [A] | 32/32/32 | | | 32/32/32/32 | | | |
| Max. DC Short Circuit Current [A] | 38.4/38.4/38.4 | | | 38.4/38.4/38.4/38.4 | | | |
| No. of Strings per MPPT | 2/2/2 | | | 2/2/2/2 | | | |
| No. of MPPT | 3 | | | 4 | | | |
| DC Switch | Integrated | | | | | | |
| AC Output | | | | | | | |
| Rated AC Power [W] | 25000 | 30000 | 33000 | 36000 | 36000 | 40000 | 50000 |
| Max. Apparent Power*1 [VA] | 25000 | 33000 | 36300 | 39600 | 39600 | 44000 | 50000 |
| Rated Output Current [A]@230Vac | 36.3 | 43.5*2 | 47.8 | 52.2 | 52.2 | 58 | 72.5 |
| Max. Output Current [A] | 37.9 | 50 | 55 | 60 | 60 | 66.7 | 75.8 |
| Rated AC Voltage/Range [V] | 3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485 | | | | | | |
| Rated Output Frequency/Range [Hz] | 50,60/45 ~ 55,55 ~ 65 | | | | | | |
| Power Factor [cos φ] | 0.8 leading ~ 0.8 lagging | | | | | | |
| Total Harmonic Distortion [THDi] | <3% | | | | | | |
| Efficiency | | | | | | | |
| Max. Efficiency | 98.8% | | | | | | |
| Euro Efficiency | 97.5% | | | | | | |
| Protection | | | | | | | |
| Internal Overvoltage Protection | Integrated | | | | | | |
| DC Insulation Resistance Detection | Integrated | | | | | | |
| Grid Monitoring | Integrated | | | | | | |
| GFCI Monitoring | Integrated | | | | | | |
| DCI Monitoring | Integrated | | | | | | |
| AC Short Circuit Current Protection | Integrated | | | | | | |
| AC Grounding Detection | Integrated | | | | | | |
| DC Surge Protection | Integrated | | | | | | |
| AC Surge Protection | Integrated | | | | | | |
| Anti-islanding Protection | Integrated | | | | | | |
| AFCI Protection | Optional | | | | | | |
| Interface | | | | | | | |
| DC Connection | MC4/H4 | | | | | | |
| AC Connection | Plug-in Connector | | | | | | |
| Display | LED+APP | | | | | | |
| Communication Port | RS232(USB)+RS485(RJ45)+DRM | | | | | | |
| Communication | Wi-Fi/Ethernet/4G(Optional) | | | | | | |
| Load Monitoring | 24/7 (Optional) | | | | | | |
| General Parameters | | | | | | | |
| Topology | Non-isolated | | | | | | |
| Consumption at Night [W] | <1 | | | | | | |
| Operating Temperature Range | -40°C to +60°C (45°C to 60°C with derating) | | | | | | |
| Cooling Method | Intelligent Fan cooling | | | | | | |
| Ambient Humidity | 0~100% Non-condensing | | | | | | |
| Altitude | 4000m (>3000m Power Derating) | | | | | | |
| Noise [dBA] | <50 | | | | | | |
| Ingress Protection | IP65 | | | | | | |
| Mounting | Wall Mounting | | | | | | |
| Dimensions [H*W*D] [mm] | 473*659.4*240 | | | | | | |
| Weight [kg] | 35 | | | 37 | | 37.5 | |
| Warranty [Year] | 5/10/15/20 | | | | | | |
| Applicable Standard | EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1 | | | | | | |

Remarks: *1According to C10/C11, Max. Apparent Power= Rated AC Power

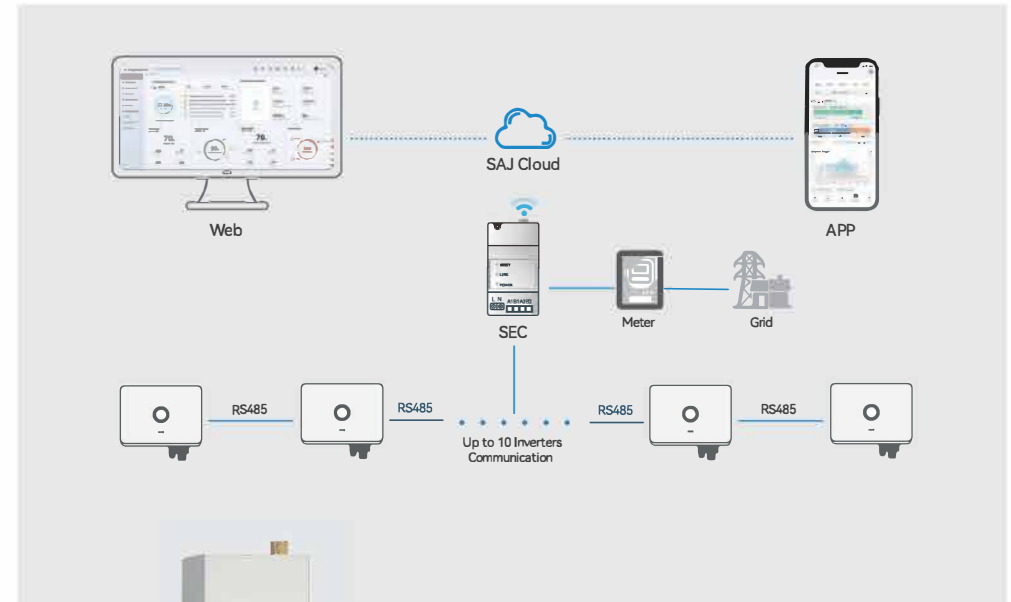
*2According to AS4777.2, Rated AC Current for R6-30K-T3-32 is 43.4A

DATA COLLECTOR



eSolar AIO3 | eSolar WiFi-D
eSolar 4G | eSolar GPRS

| MODEL | eSolar AIO3 | eSolar WiFi-D | eSolar 4G | eSolar GPRS (R5 Only) |
|--------------------------------|----------------------------------|---------------|--------------------------------|-----------------------|
| General Parameters | | | | |
| Connecting Inverters No. [Pcs] | 1 | | | |
| Inverter Communication Port | USB | | | |
| Communication | Wi-Fi/Ethernet/Bluetooth | Wi-Fi | 4G/Bluetooth | GPRS/Bluetooth |
| Operating Frequency | 2.4Ghz | 2.4Ghz | LTE-TDD , LTE-FDD | 850/900/1800/1900Mhz |
| Data Collection Interval [min] | 0.5~30 [Optional], 5 [Standard] | | 1~30 [Optional], 10 [Standard] | |
| Firmware Update Method | Serial Port/ Remote | | | |
| Access Data Method | Integrated Webpage/ Remote Sever | | | |
| Display | OLED+LED | OLED+LED | LED | LED |
| Electrical Parameters | | | | |
| Input Voltage | DC 5~7V (±5%) | | | |
| Static Consumption [W] | <0.3 | <1 | <0.25 | <0.25 |
| Max. Instant Consumption [W] | <8 | <8 | <18 | <15 |
| Environment | | | | |
| Operating Temperature Range | -40°C~+60°C | -40°C~+85°C | -25°C~+75°C | -25°C~+75°C |
| Storage Temperature Range | -45°C~+70°C | -45°C~+90°C | -40°C~+90°C | -40°C~+90°C |
| Dimensions [H*W*D][mm] | 145*50*41 | 125*50*41 | 125*53*31 | 125*53*31 |
| Weight [g] | 100 | 80 | 87 | 87 |
| Ingress Protection | IP65 | | | |
| Others | | | | |
| Mounting Method | Plug-in + Screw Lock | | | |
| Warranty [Year] | 2 | | | |



eSolar SEC

| MODEL | eSolar SEC-C/eSolar SEC-S |
|-------------------------------------|-----------------------------------|
| General Parameters | |
| Application | Commercial Projects Monitoring |
| Max. No. of Connected Devices [Pcs] | 10 |
| Communication | Wi-Fi/ Ethernet/ Bluetooth/ RS485 |
| Data Collection Interval [min] | 1~30 [Optional], 10 [Standard] |
| Firmware Update Method | Serial Port / Remote |
| Data Access Method | APP/ Web/ Sever |
| Display | LED |
| Electrical Parameters | |
| Input Voltage | 100~240Vac |
| Input Frequency | 50/60Hz |
| Static Power [W] | <0.8 |
| Max. Instantaneous Power [W] | <5 |
| General Data | |
| Operating Temperature Range | -25°C~+60°C |
| Storage Temperature Range | -40°C~+85°C |
| Dimensions [H*W*D][mm] | 84.4*36*65.5 |
| Weight [g] | 100 |
| Ingress Protection | IP20 |
| Others | |
| Mounting | Rail |
| Warranty [year] | 2 |
| Certification | CE RoHS |

eSAJ Portal

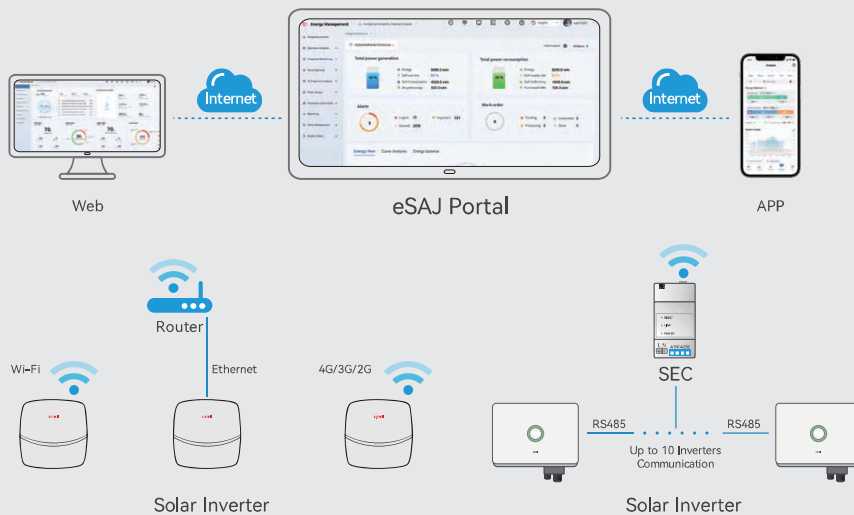
Data monitoring, Remote maintenance & Energy management



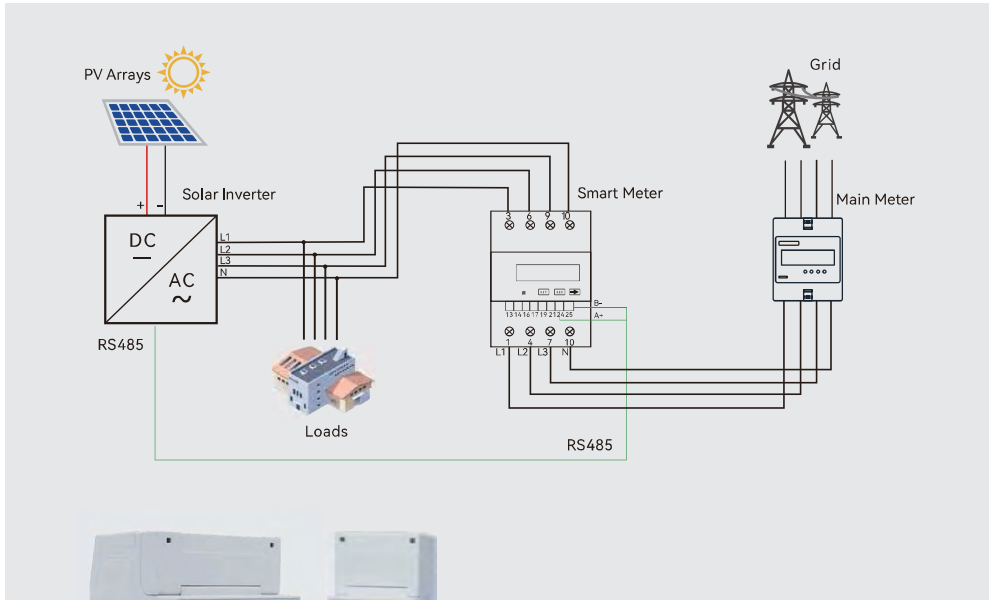
Smart Operation & Management

- Data exportable
- Alarm notification
- Data visualization
- PV plant(s) shareable
- 24H real-time data reading
- Remote setting & monitoring
- PV plant & device error detection
- Single / multiple plants monitoring available

Networking



| Category | Function | eSAJ Home Web | eSAJ Home App |
|--------------------------|------------------------------|---------------|---------------|
| Homepage | Plant Overview | ● | ● |
| | Data Summary | ● | ● |
| Plants Management | PV Plants List | ● | ● |
| | Add Plant | ● | ● |
| | Share Plant | ● | ● |
| Devices Management | Load Monitoring | ● | ● |
| | Devices List | ● | ● |
| | Device Details | ● | ● |
| Alarm Management | Remote Parameter Setting | ● | ● |
| | Alarm List | ● | ● |
| Statistics & Analysis | Alarm Details | ● | ● |
| | Plants Report | ● | ● |
| | Devices Statistics | ● | ● |
| Homepage of Single Plant | Alarm Statistics | ● | ● |
| | Visualized Dashboard | ● | ● |
| | Power Monitoring | ● | ● |
| User Management | Power Statistics | ● | ● |
| | Visualized Draft | ● | ● |
| | Account Management | ● | ● |
| Device Setting | Bluetooth Connection Setting | ● | ● |
| | WiFi Connection Set Up | ● | ● |
| | Cloud Connection Setting | ● | ● |
| Designer | Designs List | ● | ● |
| | Plant Design | ● | ● |
| Demo | Demo Site | ● | ● |



Smart Meters

Zero export solution aims to prevent solar systems from exporting excess power into the grid, to ensure the quality and waveform of voltage subject to standards of local authorities. SAJ provides zero export solution to meet emerging technical requirements and various applications on sites. Smart meter measures and calculates the system electrical parameters and interacts with inverter for energy management and zero export control purposes.

| MODEL | DDSU666 | DTSU666 |
|-------------------------------|----------------------|----------------------|
| Electrical Parameters | | |
| Application | Single phase | Three phase |
| Nominal Voltage [V] | 220,230,240 | 3*220/380 |
| Operating Range | 0.7~1.2 Un | 0.7~1.2 Un |
| Max. Current [A] | 80 | 80 |
| Frequency/Range [Hz] | 50,60/±5 | 50,60/±5 |
| Power Consumption [W] | ≤1 | ≤1 |
| Max. Instant Consumption [VA] | ≤5 | ≤5 |
| General Parameters | | |
| Display | LCD | LCD |
| Communication | RS485 | RS485 |
| Operating Temperature range | -40°C~60°C | -40°C~60°C |
| Ambient Humidity | 0~95% Non-condensing | 0~95% Non-condensing |
| Ingress Protection | IP54 | IP54 |
| Installation Method | Mounting Rack | Mounting Rack |
| Dimensions [H*W*D][mm] | 98*36*65 | 98*72*65 |
| Weight [g] | 200 | 400 |
| Certification | CE, ROHS | CE, ROHS |

Both internal CT meter and external CT are available

Commercial Solar Solutions



Plant capacity:
100kWp

Inverters: 8* R5-12K-T2
Location: Conghua, China



Plant capacity:
400kWp

Inverters: 37* R5-12K-T2
Location: Guangzhou, China