

SUNPHASE



S300 Series IP65 Solar Pump Inverter

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Variable Frequency Drive

- General Purpose Drive
- Dedicated Drive

Solar Pump Inverter

- IP20 Solar Pump Inverter
- IP65 Solar Pump Inverter

Solar Inverter

- Off Grid Solar Inverter
- Hybrid Solar Inverter

Product Introduction

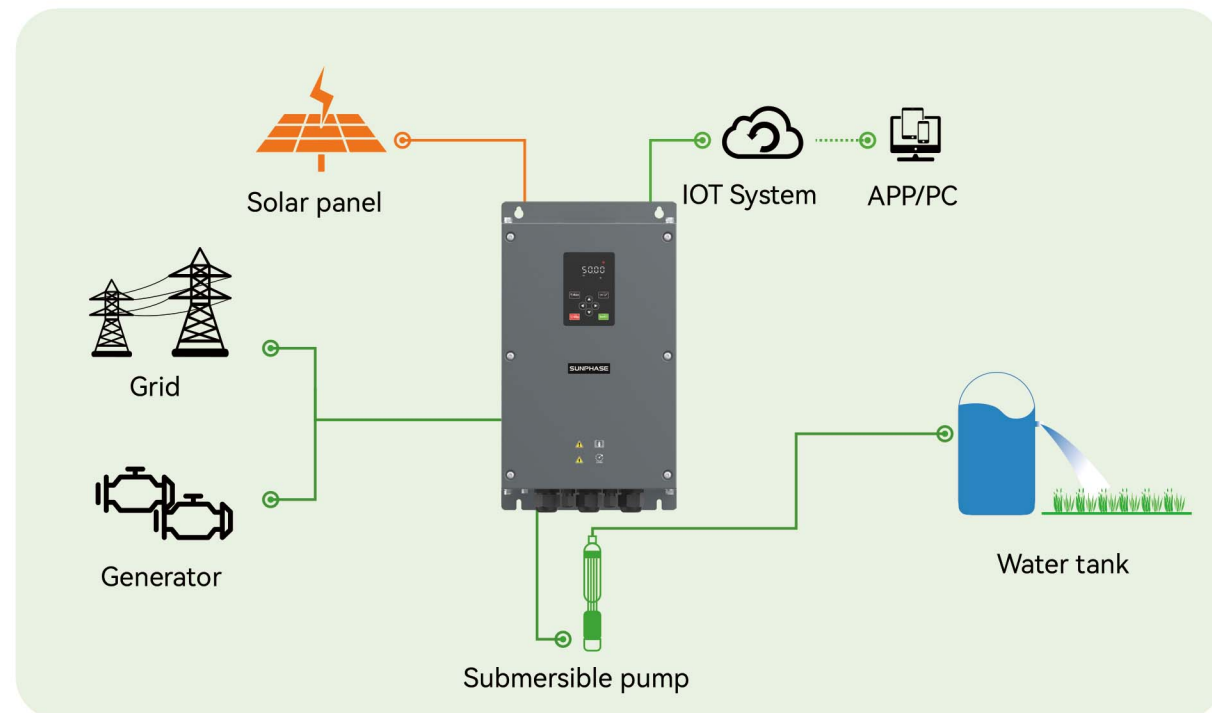
S300 series is the IP65 high protection solar pump inverter built-in advanced MPPT algorithm and adaptive start/stop functionality. It can be directly installed outdoors and widely used in agricultural irrigation, mountainous water supply, desert management, and other applications.



Product Feature

- ◇ **IP65 design**
IP65 high protection waterproof design for direct outdoor installation.
- ◇ **Built-in anti reverse**
Built-in anti reverse diode for prevent backflow to solar panels.
- ◇ **900VDC input design**
Customized models support 900VDC input
- ◇ **Advanced MPPT algorithm**
MPPT efficiency up to 99%
- ◇ **Hybrid operation**
AC and DC power supply at same time for full frequency output Full protection functions
- ◇ **Multiple pump protections**
Pump dry run protection
Low frequency protection
Water full protection
Lighting & Surge protection
Over current protection
Over heat protection
Short circuit protection

System Diagram



Product Specification

| Model | -S2 | -4 |
|---------------------------|---|------------|
| AC input voltage | 1PH 220V | 3PH 380V |
| Max DC input voltage (V) | 450 | 900 |
| Min operating voltage (V) | 140 | 230 |
| Recommended VOC range | 360-430VDC | 550-850VDC |
| Output frequency | 0 ~ 600Hz (default: 0 ~ 50.00Hz) | |
| MPPT efficiency | 99% | |
| Altitude | 0 ~ 3000m | |
| Environment temperature | Derated use above 1000m, per 100m the rated output current decrease 1% | |
| Installation | -25°C-60°C (Above 50°C, derate the rated current capacity by 1.5% for every 1°C.) | |
| Protection grade | Wall mounting | |
| Cooling | IP65 | |
| | Forced air cooling | |

Model Description

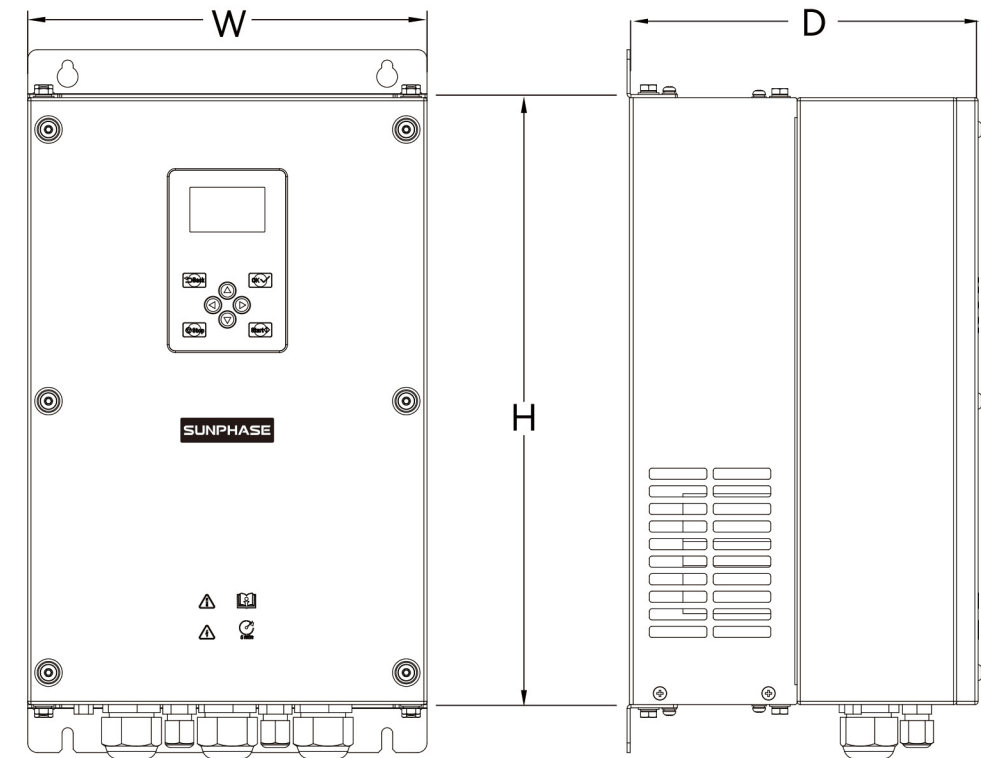
S300 - 7R5G - 4 B
 ① ② ③ ④

| No. | Sign | Description | Remarks |
|-----|------|----------------|---|
| ① | S300 | Product series | S300 Series |
| ② | 7R5G | Power rating | 7R5: 7.5 kW G: Constant torque load |
| ③ | 4 | Voltage grade | 2: 3PH 220V input S2: 1PH 220V input 4: 3PH 380V input S1: 1PH 220V input and output |
| ④ | B | Brake unit | B: Built-in brake unit |

Model Selection

| Model | Rated Output Power | | Maximum DC Input Current (A) | Rated Output Current (A) |
|---------------|--------------------|----|------------------------------|--------------------------|
| | kW | HP | | |
| S300-0R7G-S2B | 0.75 | 1 | 15 | 4.2 |
| S300-1R5G-S2B | 1.5 | 2 | 15 | 7.5 |
| S300-2R2G-S2B | 2.2 | 3 | 15 | 9.5 |
| S300-4R0G-4B | 4.0 | 5 | 15 | 9.5 |
| S300-5R5G-4B | 5.5 | 8 | 30 | 13 |
| S300-7R5G-4B | 7.5 | 10 | 30 | 17 |
| S300-011G-4B | 11 | 15 | 30 | 25 |
| S300-015G-4B | 15 | 20 | 42 | 32 |
| S300-018G-4B | 18.5 | 25 | 53 | 37 |
| S300-022G-4B | 22 | 30 | 63 | 45 |
| S300-030G-4 | 30 | 40 | 95 | 60 |
| S300-037G-4 | 37 | 50 | 115 | 75 |

Product Structure



S300 Structure Diagram

Product Dimension

| Model | Appearance and Installation Dimension(mm) | | |
|---------------|---|-----|-----|
| | W | H | D |
| S300-0R7G-S2B | 200 | 270 | 190 |
| S300-1R5G-S2B | 200 | 270 | 190 |
| S300-2R2G-S2B | 200 | 270 | 190 |
| S300-4R0G-4B | 200 | 270 | 190 |
| S300-5R5G-4B | 200 | 270 | 190 |
| S300-7R5G-4B | 200 | 270 | 190 |
| S300-011G-4B | 270 | 320 | 190 |
| S300-015G-4B | 270 | 320 | 190 |
| S300-018G-4B | 320 | 400 | 220 |
| S300-022G-4B | 320 | 400 | 220 |
| S300-030G-4 | 350 | 450 | 250 |
| S300-037G-4 | 350 | 450 | 250 |