

Designed for 20+ years of operating life
NEMA4X Electronics Cabinet



98.5% Peak Efficiency, 98.0% CEC Efficiency
Adaptive Edge MPPT® for Fast Tracking



High Power Density, Small Equipment Footprint
DC/AC Disconnect
NEC 2014 Compliant



Continuous Active Power Control
Advanced Grid Support Functionality



KEY HIGHLIGHTS:

- With over 14GW deployed in more than 50 countries since 1997, we've learned some things about how to build great products. By working with our partners and listening to our customers, we've engineered and manufactured our inverters to be robust, reliable, providing maximum uptime.
- The SG30/36KU transformerless inverter features best-in-class peak efficiency of 98.5%. Employing a patented thermal management system, the inverter is able to operate from -13°F to 140°F (-25°C to 60°C), and up to 13,000' (4,000 m).
- The SG30/36KU is 1,000Vdc, includes 2 MPPT's, is extremely light weight, and can be mounted vertically as well as horizontally, giving maximum design flexibility and lowering installation costs.
- Built for the grid, Sungrow inverters meet grid requirements around the world. Full remote and local power curtailment, PF, OVRT, LVRT, FRT controls via ModBus.

CERTIFICATIONS

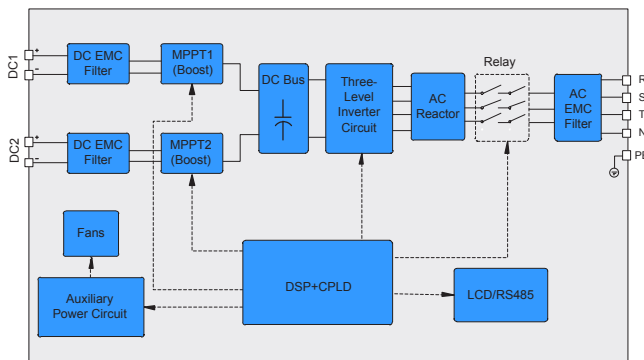
- UL1741, UL1699B, IEEE1547, CSA C22.2 #107.1-01, FCC Class A

WARRANTY AND SERVICES

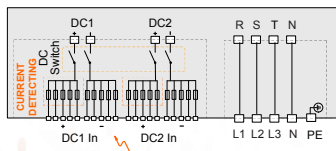
- 10 Year Standard Warranty
- Extended Warranty: 15, 20 years
- Preventive Maintenance Plan
- 99% Up Time Guarantee
- Commissioning Services
- Systems Design Services
- Sungrow Certified Training Program

MONITORING OPTIONS

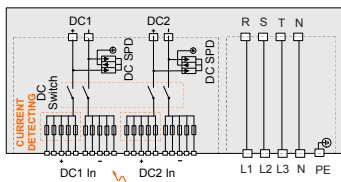
- Data Acquisition: SolarInfo Logger®
- Web Based Monitoring: SolarInfo Bank® website
- Open Communication Protocol: ModBus
- Compatible with major monitoring service providers



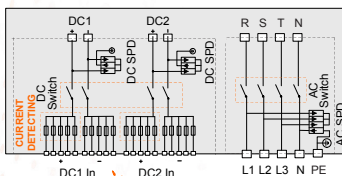
-V113 VERSION for SG30KU
DC FUSE: TOUCH-SAFE



-V112 VERSION for SG30/36KU
DC FUSE: TOUCH-SAFE



-V11 VERSION for SG30/36KU
DC FUSE: TOUCH-SAFE



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SG30KU

SG36KU

DC

| | | |
|-------------------------------------|--|------------|
| Maximum DC Input Voltage | 1000Vdc | |
| MPPT Range (full load) | 480 - 850Vdc | 560-850Vdc |
| MPPT Range | 280 - 950Vdc | |
| Number of MPPTs | 2 | |
| Maximum Short Circuit Current (Isc) | 40A per MPPT | |
| Start-Up Voltage | 300Vdc | |
| Stop Voltage | <280Vdc | |
| Number of DC Inputs | 10 | |
| String Fuses | Positive and Negative | |
| DC Surge Arrester | Type III surge arrester (Optional Type II DIN rail surge arrester) | |
| DC Termination Method | Screw Terminals | |
| Maximum Cable Size | 10AWG, Cu or Al | |
| AFCI | Yes | |
| DC Disconnect | Yes | |
| Insulation Detection | Yes | |

AC

| | | |
|----------------------------------|--|----------|
| Rated AC Power | 30,000W | 36,000W |
| Maximum AC Output Apparent Power | 33,240VA | 39,800VA |
| AC Nominal Voltage | 3Ø / 3W or 4W+Ground, 277Vac / 480Vac | |
| Grid Voltage Range | 422 - 528Vac | |
| Frequency | 60Hz | |
| Frequency Range | 57Hz - 63Hz | |
| AC Output Configuration | 3Ø / 3W or 4W + Ground | |
| Tare Losses | <1W | |
| THD @ FL | <3% | |
| Power Factor @ FL | >0.99 | |
| Power Factor Range | 0.8LG - 0.8LD (0.9LG - 0.9LD at full power) | |
| Maximum Output Current | 40A | 48A |
| AC Termination Method | Spring Clamp Terminal | |
| Maximum Cable Size | #4AWG, Cu or Al | |
| AC Surge Arrester | Type III surge arrester (Optional Type II DIN rail surge arrester) | |
| AC Leakage Current Detection | Yes | |
| AC Disconnect | Optional | |

PERFORMANCE

| | |
|-------------------------------|----------------------------------|
| Maximum Efficiency | 98.5% |
| CEC Efficiency | 98.00% |
| Operating Temperature | (-13°F to 140°F) (-25°C to 60°C) |
| Transformer / Transformerless | Transformerless |

PROTECTION

| | |
|---------------------------------|-----------------------|
| Anti-Islanding | Yes |
| Low Voltage Ride Through | Standard |
| DC Arc-Fault Circuit Protection | Certified to UL 1699B |

MECHANICAL AND ENVIRONMENTAL

| | |
|------------------------|--|
| Enclosure | NEMA 4X Electronics |
| Installation Feature | Separate Wiring box and Electronics box |
| Cable Entrance | Plastic Threaded Plug |
| Weight | 143lbs (65kg) |
| Relative Humidity | 0 - 100% |
| Noise (dB) | <55dB |
| Operating Altitude | 13,000ft (4,000m), derated >9,800ft (3,000m) |
| Cooling Method | Smart Forced Air |
| Dimensions (W X H X D) | 25" x 34.6" x 9.8" (622 x 880 x 250mm) |

COMMUNICATION

| | |
|-----------------|----------|
| RS485 | Standard |
| I/O Dry Contact | Standard |
| Protocol | Modbus |