Three Phase Inverter with Synergy Technology

for the 208V Grid for North America

SE43.2KUS



INVERTERS

Specifically designed to work with power optimizers

- Easy two-person installation each unit mounted separately, equipped with cables for simple connection between units
- Balance of System and labor reduction compared to using multiple smaller string inverters
- Independent operation of each unit enables higher uptime and easy serviceability
- No wasted ground area: wall/rail mounted, or horizontally mounted under the modules (10° inclination)

- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- Fixed voltage inverter for superior efficiency (97%) and longer strings
- Integrated DC Safety Switch
- Built-in RS485 Surge Protection, to better withstand lightning events
- Built-in module-level monitoring with Ethernet or cellular GSM



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|---|---|--------|
| OUTPUT | | |
| Rated AC Power Output | 43200 | VA |
| Maximum AC Power Output | 43200 | VA |
| AC Output Line Connections | 4-wire WYE (L1-L2-L3-N) plus PE or 3 wire Delta | |
| AC Output Voltage Minimum-Nominal-Maximum ⁽¹⁾ (L-N) | 105-120-132.5 | Vac |
| AC Output Voltage Minimum-Nominal-Maximum ⁽¹⁾ (L-L) | 183-208-229 | Vac |
| AC Frequency Min-Nom-Max ⁽¹⁾ | 59.3 - 60 - 60.5 | Hz |
| Maximum Continuous Output Current (per Phase) @208V | 120 | А |
| GFDI Threshold | 1 | А |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | |
| INPUT | | |
| Maximum DC Power (Module STC), Inverter / Unit | 58200 / 19400 | W |
| Transformer-less, Ungrounded | Yes | |
| Maximum Input Voltage DC to Gnd | 300 | Vdc |
| Maximum Input Voltage DC+ to DC- | 600 | Vdc |
| Nominal Input Voltage DC to Gnd | 200 | Vdc |
| Nominal Input Voltage DC+ to DC- | 400 | Vdc |
| Maximum Input Current | 114 | Adc |
| Maximum Input Short Circuit Current | 135 | Adc |
| Reverse-Polarity Protection | Yes | |
| Ground-Fault Isolation Detection | 350kΩ Sensitivity per Unit | |
| CEC Weighted Efficiency | 97 | % |
| Nighttime Power Consumption | < 12 | W |
| ADDITIONAL FEATURES | | ' |
| Supported Communication Interfaces | RS485, Ethernet, Cellular GSM (optional) | |
| Rapid Shutdown | NEC2014 and NEC2017 compliant/certified, upon AC Grid Disconnect | |
| RS485 Surge Protection | Built-in | |
| DC SAFETY SWITCH | | |
| DC Disconnect | 1000V / 3 x 40A | |
| STANDARD COMPLIANCE ⁽²⁾ | | |
| Safety | UL1741, UL1741 SA, UL1699B, UL1998, CSA 2.22 | |
| Grid Connection Standards | IEEE 1547, Rule 21, Rule 14 (HI) | |
| Emissions | FCC part15 class A | |
| INSTALLATION SPECIFICATIONS | r ee partis class // | |
| Number of units | 3 | |
| AC Output Conduit Size / Max AWG / Max PE AWG | 2" / 4/0 / 4 | |
| DC Output Conduit Size / Terminal Block AWG Range / | | |
| Number of Strings ⁽³⁾ | 2 x 1.25" / 6-14 / 9 strings | |
| Dimensions (H x W x D) | Primary Unit: 37 x 12.5 x 10.5 / 940 x 315 x 260; Secondary Unit: 21 x 12.5 x 10.5 / 540 x 315 x 260 | in / m |
| Weight | Primary Unit: 105.8 / 48; Secondary Unit 99.2 / 45 | lb/k |
| Operating Temperature Range | -40 to +140 / -40 to +60 ⁽⁴⁾ | °F/°(|
| Cooling | Fan (user replaceable) | |
| Noise | < 60 | dBA |
| Protection Rating | NEMA 3R | |
| Mounting | Bracket provided | |

⁽¹⁾ For other regional settings please contact SolarEdge support

Pending

Single input option per unit (up to 3AWG) available

For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf