

Solar Inverter



Product Features

- Adopts New Pure Sine-wave Inverter Topology (THD < 3%) .
- High power density with superior reliability and performance.
- Capable of driving highly reactive & capacitive loads at start moment.
- Advanced DSP Control ,Input/output isolated design.
- LED indicators display.
- Low power "Power Saving Mode" to conserve energy.
- Surge Rating: 2 * Prated.
- N+X redundancy function (optional).

Applications



Home Power Supply



Solar Energy Storage



RV



Office Equipment



Engineering Vehicles



Marine

Technical Parameter

| OPS Pure Sine Wave Inverter | | | | | | | | | | | | |
|-----------------------------|-------------------------------------|--|---------------------------|------------------------------|-------------------------------|----------------------------|---------------------------|------------------------------|------------------------------|-------------------------------|------------------------------|--|
| Item | 0612 | 1012 | — | 2012 | 0612E | 1012E | — | 2012E | 3012E | — | | |
| | 0624 | 1024 | 1524 | 2024 | 0624E | 1024E | 1524E | 2024E | 3024E | 4024E | | |
| Input | Nominal voltage | 12Vdc(*2 for 24Vdc) | | | | | | | | | | |
| | Operating range | 10Vdc~15.1Vdc | | | | | | | | | | |
| | Startup voltage | 11.75Vdc~14.8Vdc | | | | | | | | | | |
| | | Load Level | | | 0-29% | | 30-69% | | 70-100% | | | |
| | Battery alarm level | Battery-low Level | | | 11.3Vdc | | 11.2Vdc | | 11.0Vdc | | | |
| | | Battery-high Level | | | 14.1Vdc | | 14.0Vdc | | 13.8Vdc | | | |
| | Battery shut-down level | Battery-under Level | | | 10.3Vdc | | 10.2Vdc | | 10.0Vdc | | | |
| | | Battery-over Level | | | 15.1Vdc | | 15.0Vdc | | 14.8Vdc | | | |
| | Battery recovery level | Battery-under Recovery | | | 12.5Vdc | | | | | | | |
| | | Battery-over Recovery | | | 14.0Vdc | | | | | | | |
| Output | Output Waveform | Pure sine wave | | | | | | | | | | |
| | Output Power | 600W | 1000W | 1500W | 2000W | 600W | 1000W | 1500W | 2000W | 3000W | 4000W | |
| | Surge Rating | 2*Prated | | | | | | | | | | |
| | Nominal Output Voltage | 110/115/120Vac | | | | 220/230/240Vac | | | | | | |
| | Output Voltage Regulation | ± 5%.....when input voltage higher than battery-low level | | | | | | | | | | |
| | Output Frequency | 50/60Hz±0.1% | | | | | | | | | | |
| | "Output Current @ 220/230/240" | — | | | | 2.73A /2.61 A /2.50A | 4.55A /4.35A /4.17A | 6.81A /6.52A /6.25A | 9.10A /8.70A /8.34A | 13.65A /13.05A /12.51 A | 18.18A /17.39A /16.67A | |
| | "Output Current @110/115/120" | 5.45A /5.22A /5A | 9.09A /8.70A /8.33A | 13.63A /13.04A /12.50A | 18.18A /17.39A /16.67 A | — | | | | | | |
| | Crest factor | 3:1 | | | | | | | | | | |
| | THD | "<3%. linear load; <5%. non-linear load....at nominal Input voltage <15%.....at minimum cut-off (10Vdc) level" | | | | | | | | | | |
| | "Peak Output Current @ 220/230/240" | — | | | | 5.46A /5.22A /5.00A | 9.10A /8.70A /8.34A | 13.62A /13.04A /12.50A | 18.20A /17.40A /16.68A | 273A /26.1 A /25.02A | 36.36A /34.78A /33.34A | |
| | Peak Output Current @110/115/120 | 10.92A /10.44A /10A | 182A /17.4A /16.68A | 27.3A /26.1A /25A | 36.36A /34.78A /33.34A | — | | | | | | |
| | Efficiency | >88% (typical), 90% (peak) | | | | | | | | | | |
| | No load Current Draw | <15W | <15W | <15W | <25W | <20W | <20W | <20W | <30W | <35W | <40W | |
| | Stand-by Current Draw | <6W | <6W | <6W | <10W | <6W | <6W | <6W | <10W | <10W | <10W | |
| Over load protection | Refer to Sec.3.9 and Sec.3.10 | | | | | | | | | | | |

OPS Pure Sine Wave Inverter

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|-----------------|----------------------------|--|---------------|-------|----------------|---------------|---------------|-------|----------------|----------------|-------|--|
| Environmental | Noise | <50 dB | | | | | | | | | | |
| | Operating temperature | Operation temperature: -20 to +70°C -5 to +40 °C with full performance. | | | | | | | | | | |
| | Storage temperature | -30-70°C | | | | | | | | | | |
| | Operating humidity | 90% RH (no condense) | | | | | | | | | | |
| | Operating Attitude | 1500m | | | | | | | | | | |
| | Safety | ETL, UL-458, CE | | | | | | | | | | |
| | EMC | FCC Part 15 Class B. EN55022 Class B. E-mark | | | | | | | | | | |
| Mechanical | Dimension LxWxH(mm) | 270x160x70 mm | 355x190x95 mm | | 411x285x107 mm | 270x160x70 mm | 355x190x95 mm | | 411x285x107 mm | 411x285x122 mm | | |
| | Weight (Kg) | 2.5kg | 4.0Kg | 4.5kg | 8.0kg | 2.5kg | 4.0Kg | 4.5kg | 8.0kg | 8.8kg | 8.8kg | |
| | Force cooling | Load and Temperature Controlled Cooling Fan | | | | | | | | | | |
| Control | Protection | Overload, Short circuits, Reverse polarity, Over / under input voltage, Over temperature, High output voltage, Low output voltage, Unit internal failure. Unit in-parallel failure | | | | | | | | | | |
| | Startup time | < 5 Seconds | | | | | | | | | | |
| | Power Saving Recovery Time | 5 Seconds | | | | | | | | | | |
| Human Interface | LED Indicator | 3-LED installed | | | | | | | | | | |
| | Audible Alarm | Buzzer | | | | | | | | | | |
| | Communication Interface | RS232 | | | | | | | | | | |

