# DRAKE SVO

SPECIAL VEHICLE OPERATIONS

DATASHEET

## Kisae 2000W Pure Sine Wave Inverter - SW1220i

Model SW1220i-EU


SUPPLIED AND SUPPORTED BY

**Drake SVO**

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# Power Inverters - True Sinewave

## Premium Output To Run Your Loads

All modern electronics are designed to run on electricity using a True (Pure) sine waveform, the most reliable waveform available. It is the same waveform the utility company supplies to your home and business. This waveform appears graphically as a smooth wave with peaks and valleys. KISAE True sinewave inverters provide power with very low harmonic distortion, noise or excess heat. These inverters are the preferred choice for powering “sensitive loads” like onboard electronics and demanding motor loads. Some appliances also require a True sinewave to run properly. These include: digital clocks, light dimmers, variable speed motors, flat screen TVs, video game consoles, battery chargers and audio/visual equipment. Because of their advanced features and benefits, True sinewave inverters represent a premium purchase choice.




KISAE TECHNOLOGY

# Power Inverters

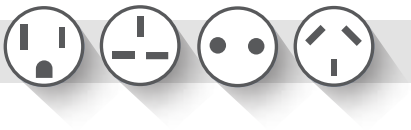
True Sine Wave Output - SW Series

Regulatory Approved

Commercial / Residential / Leisure Use



| Power Inverter | 120 VAC Series SW 1204 | SW 1210 | SW 1220 | 230 VAC Series SW 1204i | SW 1210i | SW 1220i |
|---|---|---|---|---|---|---|
| **AC Output** | | | | | | |
| Power (Continuous) | 400W | 800W | 2000W | 400W | 1000W | 2000W |
| Power (Peak) | 800W | 1600W | 4000W | 800W | 1600W | 4000W |
| Voltage/Frequency | 120VAC / 60 Hz | 120VAC / 60 Hz | 120VAC / 60 Hz | 230VAC / 50 Hz | 230VAC / 50 Hz | 230VAC / 50 Hz |
| Current | 3.3A | 8.3A | 16.6A | 1.7A | 4.3A | 8.7A |
| Waveform | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) |
| Peak Efficiency | 90% | 90% | 90% | 90% | 90% | 90% |
| AC Receptacle | NEMA 5-15 | NEMA 5-15 GFCI | NEMA 5-20 GFCI | Euro, Australia, UK | Euro, Australia, UK | Euro, Australia, UK |
| **DC Output** | | | | | | |
| 5V USB Output | 750mA | 2.1A | 2.1A | 750mA | 2.1A | 2.1A |
| **DC Input** | | | | | | |
| Voltage (nominal) | 12.5Vdc | 12.5Vdc | 12.5Vdc | 12.5Vdc | 12.5Vdc | 12.5Vdc |
| Operation Range | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc |
| Current (no load) | < 0.3A | < 1.2A | < 1.2A | < 0.8A | < 1.2A | < 1.2A |
| **Display Panel** | | | | | | |
| Indicator | Power, Fault | Status | | Power, Fault | Status | |
| Digital Display (LED) | Not Applicable | Input Voltage, Output Power, Warning & Error Code | | Not Applicable | Input Voltage, Output Power, Warning & Error Code | |
| **Protection** | | | | | | |
| Input Undervoltage Shutdown | 10.5Vdc | 10.5Vdc | 10.5Vdc | 10.5Vdc | 10.5Vdc | 10.5Vdc |
| Input Overvoltage Shutdown | 15.5Vdc | 15.5Vdc | 15.5Vdc | 15.5Vdc | 15.5Vdc | 15.5Vdc |
| **Regulatory Compliance** | | | | | | |
| Markings | cETLus | cETLus | cETLus | CE | CE | CE |
| Conformance | UL & CSA Standards | UL & CSA Standards | UL & CSA Standards | LVD, EMC | LVD, EMC | LVD, EMC |



| | | | | | | |
|---|---|---|---|---|---|---|
| **Enclosure** | | | | | | |
| Weight | 3.8 lbs. | 6.0 lbs. | 11.5 lbs. | 1.7 Kg | 2.7 Kg | 5.2 Kg |
| Dimension | 10.5 x 6.2 x 10.0" | 10.5 x 6.2 x 10.0" | 14.5 x 10.5 x 14.0" | 270 x 160 x 260mm | 270 x 160 x 260mm | 365 x 370 x 355mm |



| | | | | | | |
|---|---|---|---|---|---|---|
| **Accessory (Optional)** | | | | | | |
| Remote ON/OFF switch | | | | | | |

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# Power Inverters

True Sine Wave Output with Transfer Switch - SWXFR Series

Regulatory Approved

Commercial / Residential / Leisure Use



| | 120 VAC Series | | | 230 VAC Series | | |
|---|---|---|---|---|---|---|
| SWXFR Series | SWXFR 1210 | SWXFR 1220 | SWXFR 1230 | SWXFR 1210i | SWXFR 1220i | SWXFR 1230i |
| **AC Output** | | | | | | |
| Power (Continuous) | 1000W | 2000W | 3000W | 1000W | 2000W | 3000W |
| Power (Peak) | 2000W | 4000W | 6000W | 2000W | 4000W | 6000W |
| Voltage/Frequency | 120VAC / 60 Hz | 120VAC / 60 Hz | 120VAC / 60 Hz | 230VAC / 50 Hz | 230VAC / 50 Hz | 230VAC / 50 Hz |
| Current | 8.3A | 16.6A | 25.0A | 4.3A | 8.7A | 13.0A |
| Waveform | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) | True Sine Wave (<3% THD) |
| Peak Efficiency | 90% | 90% | 90% | 90% | 90% | 90% |
| AC Receptacle | NEMA 5-15 GFCI | NEMA 5-20 GFCI | NEMA 5-20 | Euro, Australia, UK | Euro, Australia, UK | Euro, Australia, UK |
| **DC Output** | | | | | | |
| 5V USB Output | 2.1A | 2.1A | 2.1A | 2.1A | 2.1A | 2.1A |
| **DC Input** | | | | | | |
| Voltage (nominal) | 12.5 Vdc | 12.5 Vdc | 12.5 Vdc | 12.5 Vdc | 12.5 Vdc | 12.5 Vdc |
| Operation Range | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc | 10.5 - 15.5Vdc | 10.5 - 15.5Vdcs | 10.5 - 15.5Vdcs |
| Current (no load) | < 1.5A | < 1.5A | < 1.5A | < 1.5A | < 1.5A | < 1.5A |
| **AC Transfer Switch** | | | | | | |
| Transfer Time | < 30ms | < 30ms | < 30ms | < 30ms | < 30ms | < 30ms |
| Transfer Relay Rating | 30A | 30A | 30A | 16A | 16A | 16A |
| **Display Panel** | | | | | | |
| Indicator | Status | | | Status | | |
| Digital Display (LED) | Input Voltage, Output Power, Warning, Error Code | | | Input Voltage, Output Power, Warning, Error Code | | |
| **Protection** | | | | | | |
| Input Undervoltage Shutdown | 10.5Vdc | 10.5Vdc | 10.5Vdc | 10.5Vdc | 10.5Vdc | 10.5Vdc |
| Input Overvoltage Shutdown | 15.5Vdc | 15.5Vdc | 15.5Vdc | 15.5Vdc | 15.5Vdc | 15.5Vdc |
| **Regulatory Compliance** | | | | | | |
| Markings | cETLus | cETLus | cETLus | CE | CE | CE |
| Conformance | UL & CSA Standards | UL & CSA Standards | UL & CSA Standards | LVD, EMC | LVD, EMC | LVD, EMC |
| **Enclosure** | | | | | | |
| Weight | 11 lbs. | 13.0 lbs. | 15.4 lbs. | 4.9 Kg | 5.8 Kg | 6.9 Kg |
| Dimension | 17 x 9 x 4.5" | 17 x 9 x 4.5" | 21 x 9 x 4.5" | 435 x 230 x 115mm | 435 x 230 x 115mm | 539 x 230 x 115mm |



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