



Static Frequency Converter Systems with In-built Isolation Transformer

Technical Specifications (3KVA to 7.5KVA, 1Ø - 1Ø)

| Ratings | 3 KVA | 5 KVA | 7.5 KVA |
|-----------------------|--|-----------------|-----------------|
| Output Rating | 2400W | 4000W | 6000W |
| Topology | IGBT based DSP Control. | | |
| Input Voltage | Single Phase 230V AC, 190 to 265V AC. | | |
| Input Frequency | 50Hz, 47 to 53Hz. | | |
| Input PF | 0.8. | | |
| Output Voltage | 220V AC / 115V AC +/- 1%. | | |
| Output Frequency | 60Hz / 400Hz +/-0.5%. | | |
| Isolation Transformer | Provided Inbuilt. | | |
| Crest Factor | 3:1. | | |
| Waveform | Sinusoidal. | | |
| THD | < 3% on linear load. | | |
| Overload | 110% for 10 minutes, 125% for 1 minutes, 150% for 5 seconds. | | |
| Efficiency | > 80%. | | |
| Protections | Input & Output Over / Under Voltage. DC - High / Under Voltage, Output - Overload / Short Circuit / Over Temp. | | |
| Audio Alarm | Inverter Trip. | | |
| Metering | LCD Display for Input & Output Voltage, Current, Frequency. | | |
| Messages | Input - On / High / Low. DC High. SFC - On / Off / Normal, Output - Low / High / Overload / Fail / Short Ckt., Over Temp. | | |
| Indications | Mains On / Inverter On / Trip. | | |
| Controls | Start, Stop & Scroll. | | |
| Enclosure | IP 20. | | |
| Operating Temp. | 0 to 40°C. | | |
| Humidity | Upto 95% Rh (non-condensing). | | |
| Cooling | Forced Air. | | |
| Noise | <50 dB. | | |
| Dimensions (mm) | 300 x 530 x 450 | 300 x 530 x 450 | 350 x 750 x 710 |

Technical Specifications (10KVA to 60KVA)

| Ratings | 10 KVA | 20 KVA | 30 KVA | 40 KVA | 50 KVA | 60 KVA |
|--------------------------------|--|--------|------------------|-----------------------|------------------|--------|
| Output Rating | 8 KW | 16 KW | 24 KW | 32 KW | 40 KW | 48 KW |
| Topology | IGBT based. | | | | | |
| Input Voltage | 415V AC, 335 to 475V AC. | | | | | |
| Input Frequency | 50Hz, 47 to 53Hz. | | | | | |
| Input PF | 0.92. | | | | | |
| Input Current THD | <30%. | | | | | |
| Output Voltage | 115V 1Ø / 200V 3Ø / 400V 3Ø ±1% | | | 200V 3Ø / 400V 3Ø ±1% | | |
| Output Frequency | 60 Hz / 400Hz ±0.5%. | | | | | |
| Isolation Transformer | Provided Inbuilt. | | | | | |
| Power Factor | 0.8 Lag to Unity. | | | | | |
| Crest Factor | 3:1. | | | | | |
| Waveform | Sinusoidal. | | | | | |
| THD | <3% on linear load & <5% on non-linear load. | | | | | |
| Overload | 110% for 10 minutes, 125% for 1 minute, 150% for 10 sec. | | | | | |
| Transient Response | For 0 - 50% & 50% - 100% load change voltage remains within ±5%. | | | | | |
| Inverter Efficiency | >88%. | | | | | |
| Protections | Input & Output Over / Under Voltage, Single Phasing DC - High / Under Voltage Output Overload / Short Circuit / Over Temp. | | | | | |
| Audio Alarm | Inverter Trip. | | | | | |
| Metering | LCD display for Input & Output - Voltage, Current & Frequency, Battery - Voltage & Current. | | | | | |
| Indications | Mains - On / High / Low / Single Phasing DC - On Inverter - On / Trip / High / Low / Over Current | | | | | |
| Switchgear | MCB / MCCB for Input, Output. | | | | | |
| Termination | Input, Output. | | | | | |
| Enclosure | IP 20 / IP 21 / IP 42 / IP 54. | | | | | |
| Operating Temp. | 0 to 40°C. | | | | | |
| Humidity | Upto 95% Rh (non-condensing). | | | | | |
| Cooling | Forced Air. | | | | | |
| Noise | <75 dB. | | | | | |
| Configuration | Standalone / Hot Standby. | | | | | |
| Dimensions (mm) (W x H x D) | 500 x 1100 x 800 | | 600 x 1200 x 900 | | 800 x 1600 x 800 | |
| Altitude | <1500m. | | | | | |

Ordering Information

F C X X X X - X X X X X X X

1 - Single Phase I/P
3 - 3 Phase I/P

1 - Single Phase O/P
3 - 3 Phase O/P

KVA Rating

Output Frequency
400 - 400 Hz
050 - 50Hz
060 - 60Hz

B - Battery
Blank - No Battery

Output Voltage
036 - 36V
115 - 115V
200 - 200V
208 - 208V
230 - 230V
380 - 380V
400 - 400V
415 - 415V