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Since 1992

## Salient Features Of Power Tycoon Static Frequency Converter

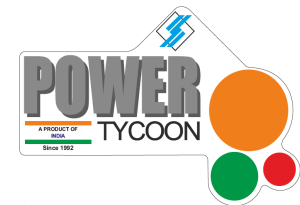
**3 PHASE INPUT – 3 PHASE OUTPUT 30 To 100KVA**

- Output Frequency As Per Requirement.
- Output Galvanic Isolation transformer.
- Input Neutral Current - Zero.
- Design Based On IGBT.
- Double Edge High Frequency SPWM.
- Control Based On VLSI / FPGA / DSP.
- RTWC (Real Time Waveform Controller).
- Lowest Output THD Less Than 3%.
- **Product Size Differs As Per Rating.**
- Excellent Dynamic Response.
- Rectifier - Inverter With Soft Start Circuit.
- LED Annunciation 16 Channel.
- Input Isolation Transformer \*\*
- Input 12 Pulse Transformer \*\*
- Interactive 20 x 4 LCD Display With HMI \*\*
- SNMP Optional \*\*
- Variable Voltage 0-1000V Available \*\*
- \*\* Optional Feature

### TECHNICAL SPECIFICATIONS

#### • INPUT

- Input Configuration : Three Phase 3 Wire + Neutral + Earth.
- Input Voltage : Three Phase 400V (Wide Range).
- Input Frequency : 50 Hz (+3% - 3%) (53 - 47 Hz).
- Input Neutral Current : Zero.
- Input Converter : Full Bridge Full Controlled.
- Input Cutt Off Automatic : For Input Over - Under Voltage & Phase Fail - Reverse Condition.
- Input Surge Protection : Built In.
- Input Power Walk In : 100% Within 15 To 20 Sec. With Soft Start.
- Input Rectifier Efficiency : Better Than 90%.
- Nominal DC Voltage : > 360 V Standard.
- Nominal DC Ripple : Less Than 3%.



#### IP ANNUNCIATION.

- Input On LED
- DC On LED
- CV Mode LED
- CC Mode LED
- Rectifier Trip LED
- Input UV LED
- Input OV LED
- DC OV LED

#### PROTECTIONS

- Input MCB / MCCB : Built In
- Input Single Phasing : Electronic.
- Input Phase Reverse : Electronic.
- Input Under Voltage : Electronic.
- Input Over Voltage : Electronic.
- Input Over Current : Electronic + MCCB
- DC Over Voltage : Electronic.

## • OUTPUT

- Output Configuration : Three Phase 4 Wire. + Earth.
- Output Rating : 30 To 100 KVA. (24 To 80 KW).
- Output Isolation : Two Limb Galvanic Isolation Transformer Per Phase.
- Output Voltage : L-N 110V / 230V Or **As Per Requirement.**
- Output Frequency : 60 To 500 Hz +/- 0.5% **As Per Requirement.**
- Output Power Factor : 0.8 .
- Output Waveform : Sine Wave **THD Less Than 3%.**
- Output Inverter : IGBT Based Double Edge SPWM RTWC.
- Topology : Based VLSI / FPGA.
- Inverter Efficiency : More Than 90 %.
- Transient : +/- 5% For 50% Step Load Change.
- Transient Recovery : Within 1 Cycle.
- Crest Factor : 1 : 3
- Over Load : 110% For 10 min With Protection Bypass.
- Humidity : 95% RH (Non Condensing).
- Acoustic : Less Than 65 dB At a Distance 1 Meter.
- Cooling : Forced Air.
- Protection : IP 20
- Operating Temp : 0 - 45 deg. Storage -10 To +65 Deg.

## OP ANNOUNCEMENT.

- Output On LED
- Input Fail LED
- Alarm On LED
- DC Low LED
- System Trip LED
- Output UV LED
- Output OV LED
- Output OC LED

## PROTECTIONS

- DC Low : Electronic.
- Inverter Input : Semiconductor Fuse.
- Output Under Volt : Electronic.
- Output Over Volt : Electronic.
- Output Over Current : Electronic.
- Output Short Circuit : Electronic.
- Output : MCCB

## • METER

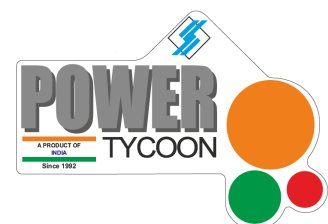
- Input Voltmeter. With Selector switch.
- Output Voltmeter. With Selector switch.
- Output Current Meter. With Selector switch.
- Output Frequency Meter

## CONTROL

- Output On / Off.
- Output Reset.
- Alarm.

## • DIMENTIONS (Approx)

- |         | 30    | 35-50 | 60-80 | 100  | KVA |
|---------|-------|-------|-------|------|-----|
| ➤ Hight | ➤ 950 | 1250  | 1250  | 1500 | mm  |
| ➤ Width | ➤ 500 | 650   | 1300  | 1500 | mm  |
| ➤ Depth | ➤ 900 | 1000  | 700   | 1000 | mm  |



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