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Since 1992

Salient Features Of Power Tycoon UPS

3 PHASE INPUT – 3 PHASE OUTPUT 6 To 600KVA

- Double Conversion On-Line UPS.
 - Built-in 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 2%
 - Excellent Dynamic Response.
 - Rectifier - Inverter With Soft Start Circuit.
 - Rectifier and Inverter With Pushpull Air Cooling
 - Suitable for All Types Of Batteries.
 - 3 Step Float Cum Boost Charger Built-In.
 - Separately Settable Float and Boost Voltage.
 - Heavy Duty Battery Charger Built-In.
 - LED Annunciation 16 Channel.
 - Interactive 20 x 4 LCD Display With HMI. **
 - SNMP With LCD Display Optional **
 - Static & Manual Bypass Optional. **
 - GSM Communication Monitoring & Control **
 - ** Optional Feature
- **Actual Product Image Differs As Per Rating.**

TECHNICAL SPECIFICATIONS

• INPUT 3Ø

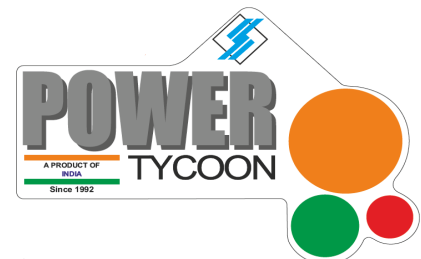
- Input Configuration : Three Phase 3 Wire + Earth.
- KVA Rating : 6 To 600 KVA.
- Input : Three Phase 400V (Wide Range).
- Input Frequency : 50 Hz (+3% - 3%) (53 - 47 Hz).
- Input Neutral Current : Zero.
- Input Converter : Full Bridge Full Controlled.
- Input Cutt Off Auto Restart : For Input Over / Under Voltage & Phase Fail / Reverse.
- 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%.
- Battery Charger Type : Float Cum Boost 3 Step Charger.
- Battery Charging : On Board Selectable 2 / 4 / 8 / 16A.
- Float Voltage : Settable 2.2V To 2.3V Per Cell
- Boost Voltage : Settable 2.33V To 2.42V Per Cell
- Battery Type : Suitable For All Types Of Batteries.

• IP ANNUNCIATION.

- Input On LED
- DC On LED
- Battery CV / CC LED
- Rectifier Trip LED
- Input UV LED
- Input OV LED
- DC OV LED

• PROTECTIONS

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



● **OUTPUT 3ø**

- Output Configuration : Three Phase 4 Wire. + Earth.
- KVA Rating : 6 To 600 KVA.
- KW Rating : 60 To 96 KW.
- Output Isolation : Two Limb Multi Winding Galvanic Isolation Transformer.
- Output Voltage : 230 Volts +/- 1% L-N & 400 Volts +/- 1% L-L.
- Output Frequency : 50 Hz +/- 0.1% In Free Run Mode.
- Output Power Factor : 0.8 Lag To Unity.
- Output Waveform : Sine Wave **THD Less Than 3%**.
- Output Inverter : IGBT Based Double Edge SPWM RTWC.
- Topology : VLSI / FPGA Based.
- 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.



● **ANNUNCIATION.**

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

● **PROTECTIONS**

- Battery Input : MCB / MCCB + Fuse
- Inverter Input : Semiconductor Fuse.
- Output Under Volt : Electronic.
- Output Over Volt : Electronic.
- Output Over Current : Electronic + MCB / MCCB
- Output Short Circuit : Electronic.
- Battery Over Discharge : Electronic.
- Output : MCB / MCCB

● **HMI Interface (Add On feature Optional)**

- Tuch Screen HMI On Front / Remote Pannel

● **SNMP / MODBUS / BMS Connectivity (Add On feature Optional)**

- Web Monitoring - IP addressable HTTP based monitoring system
- MODBUS / BMS Connectivity For SCADA , PLC , Remote Control

● **GSM Communication Specifications. (Add On feature Optional)**

- GSM Communication Facility Built-In With Monitoring All Parameters - Event & Data.
- Communication Is Available With Mobile And On Cloud Space Or Web Server.

● **METER**

- Input Voltmeter.
- Output Voltmeter.
- Output Current Meter.
- DC Voltmeter.

● **CONTROL**

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

● **COMMUNICATION**

- 485
- 232

● DIMENTIONS (Approx)	KVA	6 -15	15-45	60-80	120
➤ Hight (MM)	➤	850	1050	1200	1200
➤ Width (MM)	➤	500	550	1250	1800
➤ Depth (MM)	➤	900	1100	840	850

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