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Since 1992



Salient Features Of Power Master On-Line UPS

3 PHASE INPUT – 1 PHASE OUTPUT 6 To 200KVA

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| <ul style="list-style-type: none"> ➤ Double Conversion On-Line UPS. ➤ Built-in Galvanic Isolation transformer. ➤ Design Based On IGBT. ➤ Double Edge High Frequency SPWM. ➤ Control & Display Based On VLSI / FPGA / DSP. ➤ RTWC (Real Time Waveform Controller) Built-In. ➤ Lowest Output THD Less Than 3% ➤ Excellent Dynamic Response. ➤ Rectifier - Inverter With Soft Start Circuit Built-In. ➤ Input Neutral Current - Zero. | <ul style="list-style-type: none"> ➤ Suitable for All Types Of Batteries. ➤ Float Cum Boost Charger Built-In. ➤ Separately Settable Float and Boost Voltage built in . ➤ Heavy Duty Battery Charger Built-In. ➤ LED Annunciation 16 Channel Built-In. ➤ Interactive 20 x 4 LCD Display With HMI ** ➤ GSM Communication Monitoring & Control ** ➤ Static Bypass / Manual Bypass / Redundancy. ** ➤ ** Optional Feature ➤ Actual Product Image Differs As Per KVA Rating. |
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• TECHNICAL SPECIFICATIONS

- Input Configuration : Three Phase 3 Wire. + earth. (Input Neutral Not Required)
- KVA Rating : 6 to 200 KVA
- Input : Three Phase 400V (Wide Range).
- Input Frequency : 50 Hz (+3% - 3%) (53 - 47 Hz).
- Input Neutral Current : Zero.
- Input Converter : Full Controlled.
- Input Cutt Off Auto Restart : For Input Over / Under Voltage / Phase Fail / Reverse Condition.
- Input Surge Protection : Built In.
- Input Power Walk In : 100% Within 20 Sec. With Soft Start.
- Input Rectifier Efficiency : Better Than 90%.
- Input Terminal : Suitable Termination Built In.
- 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 On Charge LED
- Battery Charged LED
- Rectifier Trip LED
- Input UV LED
- Input OV LED
- DC OV LED

• PROTECTIONS

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



• **OUTPUT**

- Output Configuration : Single Phase 3 Wire.
- KVA Rating : 6 to 200 KVA
- Output Isolation : Two Limb Multi Winding Galvanic Isolation Transformer.
- Output Voltage : 230 Volts +/- 1%
- 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 2%**.
- 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.
- Humidity : 95% RH (Non Condensing).
- Acoustic : Less Than 65 dB At a Distance of 1 Meter.
- Cooling : Forced Air.
- Protection : IP 21 (Optional up to IP41)
- Operating Temp : 0 - 45 deg. Storage -10 To +65 Deg.



• **OP 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 Curre : Electronic.
- Output Short Circu : Electronic.
- Battery Over Discl : Electronic.
- Output : MCB / MCCB

• **METER**

- 20 X 4 Line LCD Display
- All Parameters
- All Events

• **COMMUNICATION**

- 485
- 232

• **CONTROL**

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

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

- Touch 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 Of All Parameters - Event & Data.
- Communication Is Available With Mobile And On Cloud Space Or Web Server.

DIMENTIONS (Approx)**	KVA	6-15	20-30	35-50	60-80	100
➤ Hight (mm)	➤	850	950	1250	1250	1500
➤ Width (mm)	➤	500	500	650	1300	1500
➤ Depth (mm)	➤	750	900	1000	700	1000

Dimention differs as per configuration**



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