

**COMPACT - UPS 3:3**  
**ENTERPRISE CLASSIC RANGE**

**10 - 300 KVA**

Intelligent, Double Conversion OnLine UPS  
With  
Power to Perform. *Anytime.*



IGBT Inverter  
Extendable Run Time  
3 Phase in 3 Phase Out  
Self Diagnosis and Historical Log  
Centralised Protection

Generator Compatible  
100% Unbalance Load  
Easy Maintenance  
Intelligent Battery Management



**COMPACT SYSTEMS (P) LTD.**  
An ISO 9001:2015 Company  
[www.compactups.com](http://www.compactups.com)

## COMPACT – UPS 3-3

**COMPACT'S ENTERPRISE CLASSIC UPS Series** is built to withstand Industrial environments yet sensitive enough to delicate electronic and computer equipment. Features like **wide input voltage range** and **advanced digital design** with **easy battery charging maintenance** make the **COMPACT 3-3 series** the smart choice for applications where continuous power is a MUST

### 3-3 ENTERPRISE CLASSIC SERIES UPS

#### 3 Phase In 3 Phase Out

Our **Enterprise Classic Series** are true Double Conversion Online UPS built tough and are field proven, rugged range which responds well to the unstable and fluctuating power conditions prevalent in the country giving reliable performance since the last 18 years.

#### Specialised Features:

##### **Charging Current – adjustable**

Different capacities of batteries can be connected to the UPS without any need to add or reduce charger cards in the UPS. Depending on the battery capacity, exact charging current can be set from the UPS itself. Furthermore it is flexible and can be set from 1A – 30A charging current.

##### **Support 100% un-balanced load in the output**

Each phase in the output is supported by individual inverter thus enabling 100% un-balanced load in the output of the three phases.

##### **True on-line double conversion design**

When powered on, the UPS immediately performs an inspection of the components (inverter, battery, load) so as to detect any problem in time to avoid causing any negligence or loss. Provides redundant source of conditioned Backup power so that critical loads are protected even if UPS component fail. Isolates connected load from primary AC source, protecting utility from voltage sags, spikes, transient and frequency variations.

##### **Multiple CPU Intelligent Control**

Digital controls for enhanced reliability, accuracy, efficiency and reduced hardware count.

##### **100% DIGITAL Technology**

Self Diagnosis, circuit control, parameter setting and management- based on 3 high speed microcontrollers

##### **Perfect Protection**

Built in low/ over voltage, over current, overload and short circuit protection ensures low failure rate

##### **Intelligent Battery Management**

The UPS automatically charges and discharges the battery in float charging or boost charging mode according to the cycle set by the internal software and automatically maintains the battery without manual operation thus prolonging the battery life.

##### **Self diagnosis and historical data log**

COMPACT 3-3 DIITAL does periodical self diagnosis, recording all abnormal power situations (at the input side) up to 256 events. By connecting a PC through the serial port of the UPS, minute by minute events can be recorded performing a partial power audit.

##### **IGBT inverter design**

IGBT combined with advanced SPWM design ensures high quality power and higher efficiency with various Operational loads by making the UPS fully equipped to handle load fluctuations from 0-100% without transferring to bypass and to also maintain output without tolerance.

##### **Input Harmonic suppression filters (optional)**

With additional harmonic suppression filters the THDI (input current harmonics) can be substantially reduced thus avoiding oversized cabling, circuit breakers and gen-set

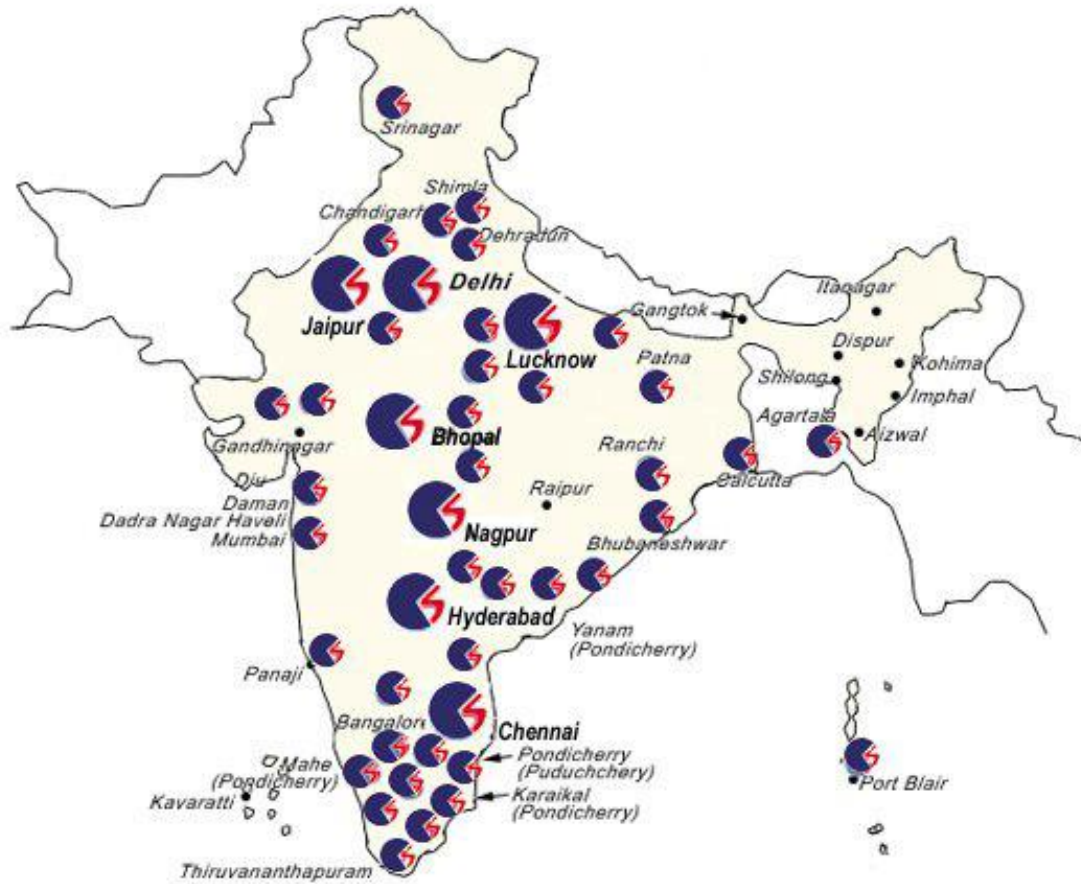
##### **Parallel redundant system (optional)**

With parallel redundancy module, the objective of continuous power for critical applications can be achieved

## TECHNICAL SPECIFICATIONS

MODEL	3-3-20	3-3-30	3-3-40	3-3-50	3-3-60	3-3-80	3-3-100/300
RATING	20 KVA	30 KVA	40 KVA	50 KVA	60 KVA	80 KVA	100 – 300 KVA
TECHNOLOGY	Micro Controller Based True On-line Double Conversion with Static Bypass and Output Galvanic Isolation						
<b>AC INPUT</b>							
PHASE	3 Phase 380/400/415 Volts AC + Neutral + Earth						
VOLTAGE	380/400/415 Volts + / - 25%						
FREQUENCY	50 Hz +/- 5% (47.5 Hz to 52.5 Hz)						
POWER FACTOR	0.92 with Filter						
SOFT START	0 to 100 % 5 Sec						
<b>BY PASS INPUT</b>							
SYSTEMS VOLTAGE	(default 32) 360 Volts DC (30-34 settable)						
FLOAT CHARGER VOLTAGE	405 Volts DC						
DC SHUTDOWN VOLTAGE	315 Volts DC						
CHARGING CURRENT	1 Amp to 30 Amps (Adjustable)						
RECHARGE TO 100 %	8 to 10 hrs						
<b>AC OUTPUT</b>							
PHASE	3 Phase Output AC + Neutral + Earth						
VOLTAGE	380 / 400 / 415 Volts						
REGULATION	380/400/415 Volts +/- 1%						
FREQ. SYNCHRONIZATION (tracking)	50 Hz +/- 5% (47.5 % to 52.5%)						
BATTERY MODE	50 Hz +/- 0.05%						
POWER FACTOR	0.7, 0.8, 0.9 VARIANTS						
WAVEFORM	Pure Sine Wave						
HARMONIC DISTORTION (THD)	< 3 % for (Linear Load) : < 5% for (Non Linear Load)						
CREST FACTOR	3:1						
EFFICIENCY (AC TO AC)	>91%						
TIME	Transient Recovery Time < 10 m sec						
<b>ALARM INDICATION</b>	Bypass input voltage above limits, Bypass input switch cut off Low voltage, High voltage, Rectifier input switch off, Battery low Battery discharge, Overload, Output on bypass, Temperature high						
<b>PROTECTION</b>							
OVERLOAD	125 % for 10 minutes, 150 % for 1 minute						
SHORT CIRCUIT	Cutoff outputs of both inverter & bypass						
THERMAL	Internal thermal switch to protect from over temperature, then transfer to bypass loop						
<b>COMMUNICATIONS</b>							
STANDARD	RS 232						
OPTIONAL	SNMP Interface						
PARALLEL PORT	Communication With Other UPS in N + 1 Configuration - Optional						
<b>GENERAL</b>							
OPERATING TEMP	0 to 40 degrees (operating)						
HUMIDITY	30 to 90 %						
NOISE LEVEL	55 to 70 dB						
COOLING	Forced Wind						
AUDIBLE ALARM	Mains Failure/Low Battery/Overload/Output High/Low						
INDICATORS	LED/LCD Panels						
<b>MECHANICAL</b>							
DIMENSIONS (mm)	430-830-1100			720-690-1400			

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