



## ONLINE UPS SYSTEM

3KVA - 200KVA

Makvolt made Industrial Online UPS provides a stable power supply with an excellent power performance. It is enhanced by an in-built Galvanic Isolation Transformer that will protect your critical equipment from voltage spikes and transients and thus maintains clean, noise-free power for critical loads.

### FEATURES

- Most advanced Microcontroller based technology with Double Conversion Topology
- Built-in Galvanic Isolation Transformer
- Rugged, Heavy duty design suitable for Industrial application.
- Unbalanced load suitability
- LCD displays UPS status and offers easy access to measurements
- Generator compatible

### APPLICATIONS

- Printing Machinery, Process(CTP)
- Digital Printers, UV Flatbed Printers
- CNC Machinery, Laser Engravers
- Textile Machinery
- Data Centers/ Rack Servers
- Pharmaceuticals Machineries & Laboratory
- Hospital Facilities



### TECHNICAL SPECIFICATIONS

Input Voltage	: 170-270 VAC Two Wire 340-470 VAC Four Wire
Input Frequency	: 47-53 Hz.
Battery Input	: 96 - 360 VDC (or as per requirement)
Output Voltage	: 230/415 VAC (or as per requirement)
Regulation	: $\pm 1\%$ under all Lines and Load Conditions
Output Frequency	: 50 Hz. $\pm 0.05\%$
Inverter Efficiency	: Better than 90%
Waveform	: Pure Sine Wave (Sinusoidal)
THD	: $< 3\%$ at Linear Load
Transient Response	: $\pm 5\%$ under Step Load Change
Transient Recovery	: within 3 Cycles
Load Power Factor	: 0.8 lagging
Overload Capacity	: 110% for 10 mins., 150% for 10 sec.
Crest Factor	: 3:1
Control Method	: Sinusoidal PWM Control
Circuit Method	: Double Conversion Zero Transfer Time
Ambient Temperature	: $0^{\circ}$ - $45^{\circ}$ C
Relative Humidity	: 95% RH Max. (Non Condensing)
Audible Noise	: Less than 55 dB at 1.5 meters
Protections	: Battery Under and Over Voltage Output Overload and Short Circuit



Uninterrupted Life

## ONLINE UPS SYSTEM

1KVA - 10KVA

Makvolt made Online UPS provides secured Power & a comprehensive solution to production loss & electrical downtime which are serious issues faced in industries.

**Galvanic Isolation Transformer is optional and can be configured externally.**

### FEATURES

- Double Conversion Online Technology
- Digitized Microprocessor Control Optimizes Reliability
- Advance Input Power Factor Correction
- Output Power Factor 0.8
- EMI/RFI Filters at Input & Output
- Cold Start Function
- Internal / External Battery Provision
- Smart SNMP Compatible

### APPLICATIONS

- Printing Machinery & Laser Engravers
- Digital Printers & UV Flatbed Printers
- Textile Machinery
- Pharmaceuticals Machineries & Laboratory
- Data Centers / Rack Servers
- Hospital Facilities



### TECHNICAL SPECIFICATIONS

Input Voltage	: 110-300V AC at 60% load. 170-300V AC at 100% Load
Frequency	: 45-55 Hz
Phase	: Single Phase With Ground
Output Voltage	: 220/230/240 VAC
Voltage Regulation	: +1%
Frequency Range (Synchronized Range)	: 45-55 Hz / 56-64 Hz
Frequency Range (Batt. Mode)	: 50 Hz / 60 Hz + 0.1 Hz
Current Crest Ratio	: 3:1
Harmonic Distortion (THDv)	: <3% (Linear load) < 6% (Non-linear load)
Transfer Time	
AC to DC	: zero
Inverter to Bypass	: 4ms (Typical)
Wave Form	: Pure Sinewave (Sinusoidal)