

Matrix Pro UPS

Features:

- True on line double-conversion
- Modular design for power expansion
- Standard 19" cabinet installation
- Parallel operation with modular battery design
- Rack & Tower convertible design
- DSP technology guarantees high performance
- Output power factor 1
- Wide input voltage & frequency rang
- 50Hz/60Hz frequency converter mode
- low MTTR
- Eco mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- Adjustable battery numbers



- True double-conversion
Matrix pro series is applied online double conversion technology to effectively insulate against network disturbances and enable higher load uptime.
- Modular connector box with hot-swappable design for ease of power expansion, installation and Maintenance Matrix pro is applied patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing four screws on the connector box, power module can be easily removed out from cabinet without disconnecting all wires. It also simplifies the process of maintenance and replacement to reduce the maintenance cost effectively.
- Rack independency
No need for extra cabinet chassis. Matrix pro can be installed with servers in the same cabinet. Besides, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS
- Parallel operation with common battery Compared to general parallel system, multiple Matrix pro UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.
- Adjustable battery design
The number of connected batteries can be adjusted flexibly based on different power demands.
- DSP technology guarantees high reliability A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.
- Output power factor 1.0
For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advanced performance.
- 50Hz/60Hz frequency converter mode
Lock output frequency at 50Hz or 60Hz to suit power sensitive equipment's.
- ECO mode operation for energy saving
ECO mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.
- Emergency power off function (EPO)
- Generator compatible
This UPS can accept generator as power source and still convert perfect power to the connected loads.
- Customized system
Multiple Matrix UPSs can easily form a complete system based on customer's demand.

Specifications

MODEL		Matrix pro 3/3-10 Kw
PHASE		3 phase in / 3 phase out
CAPACITY		10000 VA / 10000 W
PARALLEL CAPABILITY		10
INPUT		
Nominal Voltage		3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)
Voltage Range		190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load
Frequency Range		40~70Hz
Power Factor		≥0.99 @ 100% load
THDi		< 4% @ full linear load
OUTPUT		
Output Voltage		360VAC/380VAC/400VAC/415VAC (3Ph+N)
AC Voltage Regulation (Batt. Mode)		± 1%
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz
Current Crest Ratio		3:1 (max.)
Harmonic Distortion		≤ 2 % THD (Linear Load) ; ≤ 3 % THD (Non-linear Load)
Transfer Time	AC Mode to Batt. Mode	zero
	Inverter to Bypass	zero
Waveform (Batt. Mode)		Pure Sinewave
EFFICIENCY		
AC Mode		94%
ECO Mode		97%
BATTERY/CHARGER		
Battery Voltage		± 12V / 9 Ah
Battery Numbers		16 ~ 20 pcs (adjustable) x 2
Nominal Voltage		+/- 192V (12V x 32 pcs)
Maximum Voltage		+/- 240V (12V x 40 pcs)
Minimum Voltage		+/- 192V (12V x 32 pcs)
Charging Voltage		± 218V
Typical Recharging Time		9 hours recover to 90% capacity
Charging Current		+/- 4A
INDICATORS		
LCD/LED Display		UPS status, Load level, Battery level, Input /Output voltage, Discharge timer, and Fault conditions
PHYSICAL		
Long-run Model	Dimension, D X W X H (mm)	615 X 418 X 132 [3U]
	Net Weight (kgs)	22
ENVIRONMENT		
Operation Humidity		0-95 % RH @ 0- 40°C (non-condensing)
Noise Level		Less than 55dB @ 1 Meter
MANAGEMENT		
Smart USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC
Optional SNMP		Power management from SNMP manager and web browser

* Product specifications are subject to change without further notice