



>> RP-UPL series

On-line UPS

True Galvanic Isolation

3-Phase Input / 3-Phase Output

3-Phase Input / 1-Phase Output

Feature

- Advanced technology of PWM, DSP and IGBT switching components Designed to use a high frequency, highly efficiency DSP/IGBT and PWM technology in converting DC to AC power.
- True Galvanic isolation design Solve ultimately the problem of power system, including noise, lightning, and leakage current etc.
- Multi-CPU design and software/hardware cooperate control Make the system extremely high reliable.
- Plug & Play modular design To allow for each power circuit to be easily removed for quick maintenance and troubleshooting.
- Each phase with individual inverter supporting Characteristics will not be violated under 100% unbalance load.
- Protection against detaching and floating of the neutral of input power supply Ensure the safety and stability of the UPS power output.
- Protection from user error Advanced circuitry prohibits damage to the system when the user makes an operational mistake.
- Intelligent charger with temperature compensation Prolong the battery life expectancy. And with huge charging power (selectable), can charge very big capacity, long back-up time battery bank.
- Intelligent, safe battery test circuitry Test the battery without the risk of output AC failure in case of battery bad. And with battery fluid leakage and improper grounding detect circuitry, can ensure safety of the battery bank.
- Intelligent fan speed control Increase the fan life expectancy and reduce audible noise.
- Reasonable heat evacuation passage design Main PCBs are designed in a holder to separate the control circuitry and power circuitry. Therefore, the UPS system can operate under harsh environment.
- Cool start function Can be started without AC mains (with battery only) and protected from high inrush current.
- Variety of accessory (options) Remote control panel, 3 phases software for PC monitoring, auto dialing module, battery monitoring module, 3 phases SNMP card, and emergency power-off switch are available.
- Microprocessor design base
- Mini- remote control panel (option)
- Multiple output sockets
- Minimum foot print area design, light weight
- Built-In AVR for wider input range
- Auto re-charging whenever AC exist.
- Hot swappable battery by users
- RS232 communication port
- Tel/modem internet surge suppression
- DC Start function
- Green power function
- Auto detecting frequency 12-Pulse Full Controlled Rectifier (option) To reduce total harmonic current and for UPS

Specification

PHASE		3-Phase Input / 3-Phase Output												3-Phase Input / 1-Phase Output									
KVA		10	15	20	30	40	50	60	80	100	120	160	240	320	10	15	20	30	40	50	60	80	
INPUT (RECTIFIER)																							
Input Voltage		220V Δ / 380V Δ / 460V Δ , 208VY / 380VY / 400VY / 415VY																					
Input Range		+ / - 20% (> +/- 20% is available upon request)																					
Input Frequency		50 / 60 Hz + / - 5Hz																					
Power Walk In		0% - 100% : 20 sec																					
Efficiency		≅ 98%																					
Voltage Regulation		+ / - 1%																					
BATTERY																							
Battery Type / Pcs		Maintenance free lead-acid batteries / 12V x 29pcs																					
Battery Start		Yes, UPS can be started without AC source.																					
INVERTER																							
Output Voltage		220V Δ / 380V Δ / 460V Δ , 208VY / 380VY / 400VY / 415VY, + / - 1 %												220 / 230 / 240 V, 1 Φ 2 (ω) or 3 (ω)									
Wave Form		Sine Wave																					
Output Power Factor		0.8																					
Frequency Lock Range		50 / 60 Hz + / - 3Hz																					
Output Frequency (Free Running)		50 / 60 Hz + / - 0.1 Hz																					
Phase Shift Under 100% Unbalance Load		< 0.5°																					
THD (Linear Load)		< 2 %																					
Overload	<110%	Continuous																					
	110 – 125%	15 minutes																					
	125 – 150%	10 minutes																					
	> 150%	30 seconds																					
Efficiency (100% Load)		93%	93%	93%	93%	93.5%	93.5%	94%	94.5%	94.5%	95%	95%	95%	95%	93%	93%	93%	93%	93.5%	93.5%	93.5%	94.5%	
STATIC SWITCH																							

Voltage Range	173-277 VAC (L-N)																					
Mains ↔ Inverter	0 ms																					
OVERALL CHARACTERISTICS																						
Overall Efficiency	91%	91%	91%	91%	91.5%	92%	92%	92.5%	92.5%	93%	93%	93%	93%	91%	91%	91%	91%	91.5%	92%	92%	93%	
Maximum Heat Dissipation (Kw)	0.7	1.1	1.3	1.9	2.6	3	3.5	4.6	5.4	6.5	8.7	13	17.4	0.7	1.1	1.3	1.9	2.6	3	3.5	4.6	
Height x Width x Depth (mm)	1600 x 550 x 800							80-160KVA: 1600 x 1100 x 800, 240-320KVA: 1600 x 2200 x 800							1600 x 550 x 800							1600 x1100 x 800
Weight (Kg, without battery) (for standard 380V Y input only)	270	300	350	400	480	550	680	820	950	1180	1450	1950	2450	270	300	350	400	480	550	630	850	
Audible Noise	< 65 dBA (At 1 M)							< 67 dBA (At 1 M)							< 65 dBA (At 1 M)							< 67 dBA (At 1 M)
Temperature	0 – 40°C (32 – 104°F)																					
Humidity	0% - 90% (Non-Condensing)																					
Altitude	<1500 M Above Sea Level																					
EN50091-1,-2	YES																					
Short Circuit Protection	YES																					
Lightning / EMC Filter	MOV / Input&Output (FCC CLASS A)																					
Galvanic Isolation	Input&Output true Galvanic isolation																					
LED,LCD,Buzzer	YES																					
Remote Control / Communication Interface	Monitoring 1~99 UPS simultaneously / Dry contact, RS232, RS485																					

Ordering Information

RP-UPL3010V	10KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3020V	20KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3030V	30KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3040V	40KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3050V	50KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3060V	60KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3080V	80KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3100V	100KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3120V	120KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3160V	160KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3200V	200KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3240V	240KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3300V	300KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL3320V	320KVA	3-Phase Input / 3-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL1010V	10KVA	3-Phase Input / 1-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL1020V	20KVA	3-Phase Input / 1-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL1030V	30KVA	3-Phase Input / 1-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL1040V	40KVA	3-Phase Input / 1-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL1050V	50KVA	3-Phase Input / 1-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL1060V	60KVA	3-Phase Input / 1-Phase Output True Galvanic Isolation On-Line UPS
RP-UPL1080V	80KVA	3-Phase Input / 1-Phase Output True Galvanic Isolation On-Line UPS

***V: A-120/208V, B-380/220V, C-277/480V**