

## RP-UPL series

### On-line UPS

#### True Galvanic Isolation

#### 3-Phase Input / 3-Phase Output

#### 3-Phase Input / 1-Phase Output



### Features

- 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 prolongs the battery life expectancy. And with huge charging power (selectable), can charge very big capacity, long back-up time battery bank.
- Intelligent speed control of fan increases the life expectancy of fan and reduce noise.
- 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

## Specifications

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	
<b>INPUT (RECTIFIER)</b>																							
Input Voltage		220V $\Delta$ / 380V $\Delta$ / 460V $\Delta$ , 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		$\approx$ 98%																					
Voltage Regulation		+ / - 1%																					
<b>BATTERY</b>																							
Battery Type / Pcs		Maintenance free lead-acid batteries / 12V x 29pcs																					
Battery Start		Yes, UPS can be started without AC source.																					
<b>INVERTER</b>																							
Output Voltage		220V $\Delta$ / 380V $\Delta$ / 460V $\Delta$ , 208VY / 380VY / 400VY / 415VY, + / - 1 %												220 / 230 / 240 V, 1 $\Phi$ 2 $\omega$ or 3 $\omega$									
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%	
<b>STATIC SWITCH</b>																							

Voltage Range	173-277 VAC (L-N)																					
Mains ↔ Inverter	0 ms																					
<b>OVERALL CHARACTERISTICS</b>																						
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**