

UPL Series Online Transformer Base UPS

3 phase (3:3) In/Out

PF 1.0



Features

- Online double-conversion with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 1.0
- Generator compatible
- Support battery cold start and auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 7 inches LCD touch screen friendly human & machine interface
- Front access makes maintenance and replacement simplified (60 ~ 120 kVA)
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Standard emergency power off (EPO)
- Standard RS232, RS485, dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor

Specifications

MODEL	UPL - 20		UPL - 40	UPL - 60
Capacity	20KVA / 20KW		40KVA / 40KW	60KVA / 60KW
INPUT				
Input wiring	Three-phase : 4 wires (3P + G) / or 5 wires (3P + N + G)			
Rated voltage	380Vac/400/415Vac (L-L) – 220/230/240Vac (L-N) - Settable via LCD			
Voltage range	285 – 475Vac (L-L) ; 110 – 265Vac (L-N)			
Rated frequency	50Hz/60Hz (Auto sensing)			
Frequency range	40Hz – 70Hz			
Power factor	≥ 0.99 (at full load)			
Delayed start of rectifier	10 s (1 ~ 300 settable)			
Bypass voltage range	± 20% (settable)			
OUTPUT				
Output wiring	Three-phase : 4 wires (3P + G) / or 5 wires (3P + N + G)			
Rated voltage	380/400/415Vac (L-L) – 220/230/240Vac (L-N) - Settable via LCD			
Output voltage regulation	± 1%			
Output frequency regulation	50Hz/60Hz ± 0.05%			
Waveform	Sine wave			
Power factor	1.0			
Voltage distortion (THDv)	< 1% (linear load), < 2% (non-linear load)			
Crest factor	3:1			
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min, 125%~ 150% for 1 min			
Transfer time	0ms			
BATTERIES				
DC Voltage	Lead acid battery: 360Vdc Lithium iron phosphate battery: 384 Vdc			
Battery Capacity	12V/70AH*30pcs	12V/70Ah*30pcs*2 sets	12V/100Ah*30pcs*2 sets	
Back-up time	30 minutes at full load			
SYSTEM				
Efficiency	In line mode: Max. 95%; ECO mode: ≥ 98%			
Max. number of parallel connections	6			
Protections	Short-circuit, overload, overvoltage, undervoltage, low battery, overtemperature, fan failure			
Communications	RS232 / RS485 / dry contacts (standard), SNMP (optional)			
EMI	EN62040–2			
EMS	IEC61000–4–2 (ESD)			
	IEC61000–4–3 (RS)			
	IEC61000–4–4 (EFT)			
	IEC61000–4–5 (surge)			
OTHERS				
Operating temperature	0 ~ 40℃			
Storage temperature	–25℃ ~ 55℃ (without batteries)			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	≤ 1000 m (derating 1% for each additional 100 m)			
IP rating	IP 20			
Noise level at 1 m	65dB			
Dimensions (W × D × H) (mm)	400 × 800 × 1100			700 × 800× 1700
Packaged dimensions (W × D × H) (mm)	400 × 800 × 1100			800 × 900 × 1850
Net weight (kg)	210	460		590
Gross weight (kg)	252	480		620

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
- For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

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