

UPL Series Online Transformer Base UPS

10KVA ~ 120KVA 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 - 10	UPL - 15	UPL - 20	UPL - 30	UPL - 40	UPL - 60	UPL - 80	UPL - 100	UPL - 120
Capacity	10KVA / 10KW	15KVA / 15KW	20KVA / 20KW	30KVA / 30KW	40KVA / 40KW	60KVA / 60KW	80KVA / 80KW	100KVA / 100KW	120KVA / 120KW
INPUT									
Input wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Voltage range	285~ 475V								
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 five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output voltage regulation	± 1%								
Output frequency regulation	50 / 60 Hz ± 0.1% in battery mode								
Waveform	Sine wave								
Power factor	1.0								
Voltage distortion (THDv)	≤ 1% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
Transfer time	0ms								
BATTERIES									
DC Voltage	Lead acid battery: 360Vdc Lithium iron phosphate battery: 384 Vdc								
Number of batteries	Lead acid battery: 12 V x 30 pcs (support 28~32 pcs) Lead acid battery: 2 V x 180 pcs (support 168~192 pcs) Lithium iron phosphate battery: 3.2 V x 120 pcs (support 112/120 pcs)								
Charging current	Charging rate (settable) × battery capacity (settable) × number of battery groups (settable)								
SYSTEM									
Efficiency	In line mode: Max. 93%; 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°C								
Storage temperature	-25°C ~ 55°C (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					600 × 700 × 1500		700 × 800 × 1700	
Packaged dimensions (W × D × H) (mm)	490 × 920 × 1300					700 × 800 × 1650		800 × 900 × 1850	
Net weight (kg)	158	165	175	210	260	460	590	630	690
Gross weight (kg)	200	207	217	252	302	480	620	660	720

- 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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