

# UNIL 80K ~ 200K

(80 KVA ~ 200 KVA) (3:3)  
PF 1.0



### Application

- IDC data exchange room
- ISP, computer room
- Bank/bond clearing center
- Industrial process control applications
- Precision instruments and equipment

### Features

- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 Hz / 60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode
- Working efficiency up to 98.5% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery number: 32~40 pcs
- Digitally controlled charger (Max.60 A)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Selectable size LCD colorful touch screen (5 inches and 7 inches), friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery.
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232, USB, RS485, EPO, dry contacts, parallel port
- Optional SNMP card, Wi-Fi card, GPRS card and SMS alarms
- Automatic dust removal function, reduce the risk of PCB corrosion

### Specifications

MODEL	UNIL 80K	UNIL 100K	UNIL 120K	UNIL 160K	UNIL 200K
Power rating	80kVA/80kW	100kVA/100kW	120kVA/120kW	160kVA/160kW	200kVA/200kW
<b>INPUT</b>					
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE)				
Voltage range	304~478Vac, full load 228V~304Vac, load decrease linearly according to the min phase voltage				
Rated frequency	50 / 60 Hz				
Frequency range	40~70 Hz				
Power factor	> 0.99				
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%				
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz				
Input current THDi	<3% (linear load)				
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms				
<b>OUTPUT</b>					
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE)				
Isolation Transformer	Internal / External				
Frequency	Synchronized with utility in mains mode, 50/60 Hz ± 0.1 Hz in battery mode				
Waveform	Sinusoidal				
Power factor	1				
Total harmonic distortion (THDv)	<1% (full linear load); <3% (full non-linear load according to IEC/EN62040-3)				
Crest factor	3:1				
Overload	<110%, 60min; 110%~125%, 10min; 125%~150%, 1min; >150%, 200ms				
<b>BATTERIES</b>					
Long run model battery voltage	±240VDC(Selectable, 32~40pcs)				
Charging current	30 A	40 A		60 A	
Charger voltage precision	<1%				
<b>SYSTEM</b>					
Display	Default : 5 inch touch screen			Default : 7 inch touch screen	
Efficiency	96%				
Transfer time	0 ms				
Interface	Standard: RS232, RS485, USB, battery cold start Option: programmable dry contact, SNMP, parallel kit				
<b>ENVIRONMENT</b>					
Operating temperature	0°C ~ 40°C				
Storage temperature	-40°C ~ 70°C				
Relative humidity	0 ~ 95% (non-condensing)				
Noise level at 1 m	< 70dB				
Altitude	<1000 m, load derated 1% per 100 m from 1000 ~ 2000m				
<b>OTHERS</b>					
Dimensions (W × D × H) (mm)	360 x 800 x 1200	360 x 850 x 1200		440 x 850 x 1250	
Packaged dimensions (W × D × H) (mm)	450 x 870 x 1350	450 x 940 x 1350		530 x 940 x 1410	
Net weight (kg)	152	156	160	194	200
Gross weight (kg)	172	180	180	214	220

• All images and specifications are subject to change without notice.