EPI Series

8~40kVA

3:1 phase PF: 0.8

High Reliability Design

- Double Conversion on-line design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, noise suppression, and without power fluctuation interference, providing the load with more comprehensive protection
- Zero transfer time of output, satisfies high standard power requirements of precision equipment
- Modular design and dual-CPU control, high reliability and stability ensure the safe operation and high efficiency

Optimization of High-performance Battery

- Adapt intelligent battery management (ABM) technology, thus it extends battery life and reduces battery maintenance times
- Advanced CC (Constant current)/CV (Constant voltage) auto-conversion charging technology maximizes the activation of cells, thus it saves the charging time and extending the battery life

Strong Redundancy/Parallel Ability

- Some units can be directly connected in parallel, increasing the scalability of the system
- The parallel system can share a group of backup battery
- Non-fixed Master-Slave relationship: Among several UPS in parallel, the unit startup first is Master UPS, the others are Slave UPS. The master and slave can be exchanged. If the inverter of one UPS fails, the UPS will automati-cally cut off the output, then the load will be powered by remained UPS

Comprehensive and Reliable Protection

- Self-diagnosis function before start-up, avoid the risks that maybe lead to the failure
- The multi-protections such as overload, short-circuit, over-temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability

High Reliability During Operation

- Pure online static bypass technology, provides a strong protection against overload and fault
- Built-in manual maintenance bypass, further improves the reliability of continuous operation

Wide Input Range

- The range of AC input voltage is 380V±20%, thereby it reduces the battery using frequency and greatly extending the battery life
- Wide input frequency range, ensure all types of fuel generators connected work stable

User-friendly Network Management

- Chinese and English language selectable via LCD panel
- RS232 communication interface
- RS485 communication interface (Support ModBus protocal)
- SNMP card (Optional)
- Events log can be record in the LCD panel
- Dry contact signal port are available

Technical Specifications

MODEL	EPI 8K	EPI 10K	EPI 15K	EPI 20K	EPI 30K	EPI 40K
Capacity (kVA/kW)	8/6.4	10/8	15/12	20/16	3/24	40/32
INPUT						
Operating Voltage Range (Vac)	380/400 (±20%), (3Ph+N+PE)					
Operating Frequency Range (Hz)	50/60 (±5%)					
Power Factor	≥0.97 *					
OUTPUT						
Output Voltage (Vac)	220 (±1%)					
Output Frequency (Hz)	50/60 (±0.5%)					
Crest Factor	3:1 (Max)					
Efficiency	Up to 86%				Up to 88%	
Harmonic Distortion (THDv)	≤2% (Linear load)					
BATTERY						
Battery Voltage (Vdc)	192				240	
SYSTEM FEATURES						
Transfer Time (ms)	0 (Line mode → Battery mode)					
Overload	110% ≤Load≤150%/1min; >150%/200ms, to Bypass					
LED Display	Low battery voltage, Mains status, Inverter, Bypass, UPS failure, Overload					
LCD Display	I/O voltage, Frequency, Battery voltage, Load percentage, Internal temperature					
Communication Interface	RS232, RS485, EPO, Dry contact, SNMP (Optional)					
ENVIRONMENTAL						
Operating Temperature (℃)	0~40					
Storage Temperature (℃)	-25~55					
Humidity Range	0~95% (Non-condensing)					
Altitude (m)	<1500					
Noise Level (dB)	<60				<65	
PHYSICAL						
Dimension W×D×H (mm)	305×585×864				350×650×1050	
Net Weight (kg)	110	115	130	145	205	255
Shipping Weight (kg)	120	125	140	155	220	270
STANDARDS						
Safety	IEC/EN 62040-1; IEC 62477-1					
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)					
Performance	IEC/EN 62040-3					

* With optional filter
1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design