10~600kVA 3:3 phase PF: 0.9



Operating Mode

 Adopt IGBT rectifier/inverter technology, output inverter isolation transformer, doule-conversion online design, zero transfer time.

Full DSP Control

 Double DSP control makes the whole system more stable and reliable

Strong Environmental Adaptability

Conformal coating, wide mains input range: 346~456vac,
 45-65Hz, can work stably with various fuel generator.

Optimized Battery Management

Intelligent battery management system, extend battery life;
 Auto float/boost charge technology, activates the battery maximally;
 Temperature compensation, discharging time prediction, timed self-testing function, etc.

N+X Parallel Redundancy

 N+X parallel redundancy design,up to 6 units available, two sets of UPS parallel current sharing less than 3%.

Smart and Friendly Human-machine Interface

 Standard 7-inch touch screen, displays the running status, working parameters and historical records of the machine; Chinese/English display; Intuitive LED flow chart.

Generator Mode

 Set the maximum output power of the generator when a smaller one than needed is employed to extend the battery duration time. In this case, the load is supplied by both the generator and battery

 Self-diagnosis when startup, AC input over/under voltage, overcurrent, bus overvoltage, overheat, output overload, short-circuit, auxiliary power failure, battery undervoltage early warning and battery overcharge etc., make sure the system's stable and reliable operation.

(EPO) EPO Function

• EPO emergency power off function.

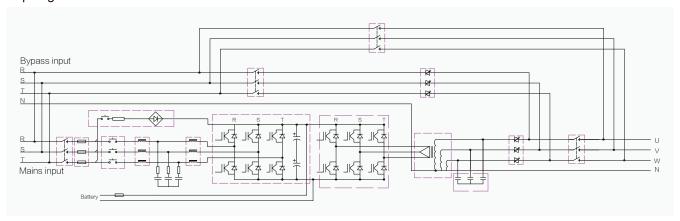
Manual Maintenance Bypass Design

 Maintenance bypass passage, holds the power supply when maintenance.

Communication Port

 USB, RS485 (MODBUS), SNMP adapter (Optional), 6 dry contacts (Optional)

Topological Schematic



Technical Specifications

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MODEL	EP10-H	EP20-H	EP30-H	EP40-H	EP60-H	EP80-H	EP100-H	EP120-H	EP160-H			
Capacity (kVA/kW)	10/9	20/18	30/27	40/36	60/54	80/72	100/90	120/108	160/144			
INPUT												
Nominal Voltage & Range (Vac)	380/400/415 (346~456), (3Ph+PE, without N)											
Frequency & Range (Hz)					50/60 (45~65)							
Power Factor					≥0.99							
Harmonic Distortion (THDi)					≤3%							
Power Walk-in					0-200s (Settable))						
BYPASS INPUT												
Voltage (Vac)				380/	400/415, (3Ph+N	+PE)						
Frequency Tollerance (Hz)				±2	(0.5, 1, 2, 3 setta	ble)						
ECO Mode					Support							
OUTPUT												
Voltage (Vac)	380/400/415 (±1%), (3Ph+N+PE)											
Frequency (Hz)	50/60 (±0.05%)											
Voltage Regulation					≤1%							
Waveform	Pure Sinewave											
Harmonic Distortion (THDv)			≤2% (100%	Linear load)			≤1°	% (100% Linear	oad)			
Frequency Tracking Speed (Hz/s)												
Bypass Transfer Time (ms)	0 (Inverter and bypass in synchronization) <15 (Inverter and bypass out of synchronization)											
Battery Transfer Time (ms)					0							
Efficiency (Max.)	Up to 88%	Up to	89%	Up to	90%	Up to 90.5%	Up to	92%	Up to 92.5%			
Overload	105%~110%, last 60min; 110%~125%, last 10min; 125%~150%, last 1min											
BATTERY												
Battery Voltage (Vdc)					600							
ENVIRONMENTAL												
Operating Temperature (°C)	0~40											
Storage Temperature (°C)				=:	25~55 (No batter	y)						
Humidity Range	0~95% (Non-condensing)											
Altitude (m)					<1500							
Noise level (dB)			<58				<68					
OTHERS												
Alarm Function			Output overlo	ad, utility abnorma	al, DC (Battery)lo	w, UPS fault alarn	a & history, etc					
Protection Function	Short circuit, overload, over temperatue, DC (Battery) low, output low voltage, fan fault alarm (Optional)											
		OHOIT OF	USB, RS485, EPO, dry contact (Optional), SNMP card (Optiomal)									
Communication Function		OHOIT OF	USB, I	RS485, EPO, dry	contact (Optional), SNMP card (Op	tiomal)					
Communication Function Optional Accessory		CHOIT OIL		RS485, EPO, dry oter, battery tempe								
		CHOIL										
Optional Accessory		GHOILG						1200×8	00×1600			
Optional Accessory PHYSICAL	270	300	SNMP adap			pass current-sha		1200×8 925	00×1600 1065			
Optional Accessory PHYSICAL Dimension W×D×H (mm)	270 300		SNMP adap 720×690×1400	oter, battery tempe	erature sensor, by	/pass current-shall 890×775×1600	ring inductor					
Optional Accessory PHYSICAL Dimension W×D×H (mm) Net Weight (kg)	-	300	SNMP adap 720×690×1400 340	oter, battery tempe	erature sensor, by	/pass current-shal 890×775×1600 625	ring inductor	925	1065			
Optional Accessory PHYSICAL Dimension W×D×H (mm) Net Weight (kg) Shipping Weight (kg)	-	300	SNMP adap 720×690×1400 340	oter, battery temper	erature sensor, by	/pass current-shal 890×775×1600 625 670	ring inductor	925	1065			

- Specifications are subject to change without prior notice
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Technical Specifications

'												
MODEL	EP200-H	EP300-H	EP400-H	EP500-H	EP600-H							
Capacity (kVA/kW)	200/180	300/270	400/360	500/450	600/540							
INPUT												
Nominal Voltage & Range (Vac)	380/400/415 (346~456), (3Ph+PE, without N)											
Frequency & Range (Hz)			50/60 (45~65)									
Power Factor			≥0.99									
Harmonic Distortion (THDi)	≤3%											
Power Walk-in			0-200s (Settable)									
BYPASS INPUT												
Voltage (Vac)	380/400/415, (3Ph+N+PE)											
Frequency Tollerance (Hz)			±2 (0.5, 1, 2, 3 settable)									
ECO Mode			Support									
OUTPUT												
Voltage (Vac)	380/400/415 (±1%), (3Ph+N+PE)											
Frequency (Hz)	50/60 (0.05%)											
Voltage Regulation			≤1%									
Waveform	Pure Sinewave											
Harmonic Distortion (THDv)			≤2% (100% Linear load)									
Frequency Tracking Speed (Hz/s)	· · ·											
Bypass Transfer Time (ms)	0 (Inverter and bypass in synchronization) <15 (Inverter and bypass out of synchronization)											
Battery Transfer Time (ms)	0											
Efficiency (Max.)	Up to 92.5%											
Overload		105%~110%, last 60r	nin; 110%~125%, last 10min; 12	25%~150%, last 1min								
BATTERY												
Battery Voltage (Vdc)			600									
ENVIRONMENTAL												
Operating Temperature (°C)			0~40									
Storage Temperature (°C)			-20~55 (No battery)									
Humidity Range			20~95% (Non-condensing)									
Altitude (m)	<1500											
Noise Level (dB)		<70		<	75							
OTHERS												
Alarm Function		Output overload, utility a	bnormal, DC (Battery)low, UPS	fault alarm & history, etc								
Protection Function	Sho	rt circuit, overload, over tempera	atue, DC (Battery) low, output lo	w voltage, fan fault alarm (Opt	ional)							
Communication Function	USB, RS485, EPO, dry contact (Optional), SNMP card (Optiomal)											
Optional Accessory	SNMP adapter, battery temperature sensor, bypass current-sharing inductor											
PHYSICAL												
Dimension W×D×H (mm)	1200×800×1600	1400×10	2580×1000×1900									
Net weight (kg)	1260	1650	2150	2800	2960							
Shipping weight (kg)	1330	1750	2250	3040	3190							
					'							
STANDARDS				IEC/EN 62040-1: IFC/FN 62477-1								
STANDARDS Safety		IE	EC/EN 62040-1; IEC/EN 62477-	1								

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