

EASY Series 10KVA-20KVA

3:1 Phase PF: 0.9



- N+X parallel redundancy
- Online double conversion with DSP control
- Input current harmonic: <30%
- Output power factor 0.9
- Wide input voltage range: 120~276Vac
- Wide input frequency range
- Support generator input
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Options: SNMP card/Relay card/Parallel card
- Cold start
- Optimization battery group, the quantity of battery:16/18/20 pieces(optional)



High reliability design

Wide input voltage range 138-485Vac (phase voltage 80-280Vac) no derating when input voltage more than 305Vac

Strong load capacity

Output power factor is 1.0 UPS can supply to 100% unbalance load. High adaptability for load, it can connect full inductive load or capacitive load.

Intelligent management

Support RS485, RS232, SNMP, dry contact card

Power Saving

High input power factor, it can be up 0.99 three level inverter Topology, the efficiency can be up to 94%.



Relay card



SNMP



Parallel board



Technical Specifications:

MODEL	ESY10000	ESY15000	ESY20000
Capacity (VA/Watts)	10KVA	15KVA	20KVA
INPUT			
Nominal Voltage	220/230/240Vac 3Ph+N		
Operating Voltage Range	120~276Vac		
Frequency Range	50Hz:45~55Hz; 60Hz:54~66Hz(auto sensing)		
Power Factor	≥0.99		
Bypass voltage range	Max.voltage: 220V: +25%(optional +10%,+15%,+20%) 230V: +20% (optional +10%,+15%), 240V: +15% (optional +10%) Min.voltage: -45% (optional -20%,-30%)		
Bypass frequency range	Frequency protection range:±10%		
ECO range	Same as the bypass		
Harmonic distortion (THDi)	<3%(100% linear load)		
Generator input	Support		
OUTPUT			
Output Voltage	220/230/240Vac		
Power Factor	0.9 (1.0) Optional		
Voltage Regulation	±1%		
Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(optional)	
	Bat. Mode	50/60(±0.1)Hz	
Crest Factor	3 : 1		
Harmonic Distortion (THDv)	≤2% with linear load		
	≤5% with non-linear load		
Efficiency	>93%		
BATTERY			
Battery voltage	±96/108/120Vdc (optional)		
Capacity (standard unit)	12V-7Ah/9Ah		
Typical recharging time	6~8 hours (to 90% of full capacity)		
Charging current	1A(Standard unit); Long run unit Max.current10A(charging current can be set according to battery capacity installed)		
SYSTEM FEATURES			
Transfer time	Mains to battery:0ms; Mains to bypass:0ms		
Overload	Line Mode	Load≤110%: last 10min, ≤130%: last 1min, >130% turn to bypass mode immediately	
	Bypass Mode	63A(Breaker)	
Short circuit	Hold whole system		
Overheat	Line Mode: Turn to Bypass; Bat. Mode: Shut down UPS immediately		
Battery low	Alarm and switch off		
Self-diagnostics	Upon power on and software control		
Battery	Advanced battery management		
Audible & Visual alarms	Line failure, Battery low, Overload, System fault		
LED & LCD display	Line mode, Bat. mode, Eco mode, Bypass mode, Battery under voltage, Overload & UPS fault		
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time		
Communication interface	RS232,USB,SNMP card(optional), Parallel card(optional), Relay card (optional)		
ENVIRONMENT			
Operating temperature	0°C~40°C		
Storage temperature	-25°C~55°C		
Humidity range	0~95% (non-condensing)		
Altitude	< 1500m		
Noise level	<55dB		
PHYSICAL			
Dimension W×D×H (mm)	Standard model:250*710*810 ; long run model:220*535*435		
Net weight (kg)	Standard :98kg ; long run :27kg		
STANDARDS			
Safety	IEC/EN62040-1,IEC/EN60950-1		
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8		