

You Have the Power to Conserve.

## 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)

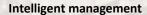


## High reliability design

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.



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









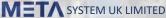




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## **Technical Specifications:**

MODEL	ESY10000	ESY15000	ESY20000
Capacity (VA/Watts)	10KVA	15KVA	20KVA
NPUT			/6
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		
	Max	x.voltage: 220V: +25%(optional +10%,+15%,+20	1% )
Bypass voltage range	230V: +20% (optional +10%,+15%), 240V: +15% (optional +10%)		
_,,,	Min.voltage: -45% (optional -20%,-30%)		
Bypass frequency range		Frequency protection range:±10%	
. , , ,	Same as the bypass		
ECO range			
Harmonic distortion (THDi)	<3%(100% linear load)		
Generator input		Support	
OUTPUT	l	000 (000 (0.40) /	
Output Voltage	220/230/240Vac		
Power Factor	0.9 (1.0) Optional		
Voltage Regulation	±1%		
Frequenc Line Mode	±1%/:	±2%/±4%/±5%/±10% of the rated frequency(opt	tional)
y 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 u	nit Max.current10A(charging current can be set	according to battery capacity
		installed)	
OVOTELL SELECTIONS			
SYSTEM FEATURES			
Transfer time		Mains to battery:0ms; Mains to bypass:0ms	
Transfer time	Load≤110%: last ′	Mains to battery:0ms; Mains to bypass:0ms 10min, ≤130%: last 1min, >130% turn to bypass	mode immediately
Transfer time	Load≤110%: last ′		mode immediately
Transfer time  Overload  Line Mode	Load≤110%: last 1	10min, ≤130%: last 1min, >130% turn to bypass	mode immediately
Transfer time Overload Line Mode Bypass Mode		10min, ≤130%: last 1min, >130% turn to bypass 63A(Breaker)	
Overload Line Mode Bypass Mode Short circuit Overheat		l0min, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system	
Transfer time Overload Line Mode Bypass Mode Short circuit		Omin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system :: Turn to Bypass; Bat. Mode: Shut down UPS im	
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low		Omin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system :: Turn to Bypass; Bat. Mode: Shut down UPS in Alarm and switch off	
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery	Line Mode	l Omin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system :: Turn to Bypass; Bat. Mode: Shut down UPS im Alarm and switch off Upon power on and software control	nmediately
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics	Line Mode	lOmin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS in Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault	nmediately
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display	Line Mode  Line mode, Bat. mode,	lOmin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system E Turn to Bypass; Bat. Mode: Shut down UPS in Alarm and switch off Upon power on and software control Advanced battery management	nmediately e, Overload & UPS fault
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display  LCD display	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency	lOmin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS in Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage Output voltage, Output frequency, Load percetemperature & Remaining battery backup time	nmediately e, Overload & UPS fault entage, Battery voltage, Inner
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display  LCD display	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency	IOmin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS im Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage , Output voltage, Output frequency, Load perce	nmediately e, Overload & UPS fault entage, Battery voltage, Inner
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Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display LCD display Communication interface	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency	lOmin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS in Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage Output voltage, Output frequency, Load percetemperature & Remaining battery backup time	nmediately e, Overload & UPS fault entage, Battery voltage, Inner
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display LCD display Communication interface ENVIRONMENT Operating temperature	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency	Iomin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS in Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage 7, Output voltage, Output frequency, Load perce temperature & Remaining battery backup time MP card(optional), Parallel card(optional), Relay	nmediately e, Overload & UPS fault entage, Battery voltage, Inner
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display LCD display Communication interface ENVIRONMENT Operating temperature Storage temperature	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency	10min, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS in Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage 7, Output voltage, Output frequency, Load perce temperature & Remaining battery backup time MP card(optional), Parallel card(optional), Relay	nmediately e, Overload & UPS fault entage, Battery voltage, Inner
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display LCD display Communication interface ENVIRONMENT Operating temperature Storage temperature Humidity range	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency	Iomin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS im Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage , Output voltage, Output frequency, Load perce temperature & Remaining battery backup time MP card(optional), Parallel card(optional), Relay  0°C~40°C  '-25°C~55°C	nmediately e, Overload & UPS fault entage, Battery voltage, Inner
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display LCD display Communication interface ENVIRONMENT Operating temperature Storage temperature Humidity range Altitude	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency	Iomin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS im Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage 7, Output voltage, Output frequency, Load perce temperature & Remaining battery backup time MP card(optional), Parallel card(optional), Relay  0°C~40°C  '-25°C~55°C  '0~95% (non-condensing)	nmediately e, Overload & UPS fault entage, Battery voltage, Inner
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Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display LCD display Communication interface ENVIRONMENT Operating temperature Storage temperature Humidity range Altitude Noise level	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency  RS232,USB,SN	Iomin, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system Turn to Bypass; Bat. Mode: Shut down UPS im Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage 7, Output voltage, Output frequency, Load perce temperature & Remaining battery backup time MP card(optional), Parallel card(optional), Relay  0°C~40°C  '-25°C~55°C  '0~95% (non-condensing)  < 1500m	nmediately  e, Overload & UPS fault entage, Battery voltage, Inner v card (optional)
Transfer time Overload Line Mode Bypass Mode Short circuit Overheat Battery low Self-diagnostics Battery Audible & Visual alarms LED & LCD display LCD display Communication interface ENVIRONMENT Operating temperature Storage temperature Humidity range Altitude Noise level PHYSICAL Dimension W×D×H (mm)	Line Mode  Line mode, Bat. mode, Input voltage, Input frequency  RS232,USB,SN	10min, ≤130%: last 1min, >130% turn to bypass 63A(Breaker) Hold whole system E Turn to Bypass; Bat. Mode: Shut down UPS im Alarm and switch off Upon power on and software control Advanced battery management Line failure, Battery low, Overload, System fault Eco mode, Bypass mode, Battery under voltage 7, Output voltage, Output frequency, Load perce 7, Output voltage, Output frequency, Load perce 7, Output voltage, Oatput frequency, Load perce 8, Remaining battery backup time MP card(optional), Parallel card(optional), Relay  0°C~40°C 1-25°C~55°C 10~95% (non-condensing) < 1500m < 55dB  ard model:250*710*810; long run model:220*53	nmediately  e, Overload & UPS fault entage, Battery voltage, Inner v card (optional)
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