

Specification

High reliability and performance

- Double conversion online technology provides stable and reliable power output
- DSP control technology, high-speed transportation and data collection and analysis capabilities ensure accurate and reliable output
- N+1 redundant parallel function improves the reliability of the entire power supply system

Excellent technical indicators

- The output power factor defaults to 0.9, optional 1.0(1), which is the same as the current generation of IT equipment to achieve a better match
- The rectification and inverter efficiency of the system is greater than 96% (2), and the high-efficiency module. The efficiency of the formula is greater than 99%, effectively reducing the UPS itself

Energy consumption

- Input power factor up to 0.99
- Input current harmonics <3%(3)

Highly intelligent management

- Eaton's global unified intelligent power monitoring and management system

Unified IPP/IPM software

Low Total Cost

- Supports 2 UPS sharing a battery pack, saving initial investment and floor space (applicable to 15-200kVA)
- Can have built-in battery or isolation transformer, integrated solution, saving floor space (see technical parameter table)
- Single/double inputs are flexibly optional to reduce installation costs. (Note: 15-80k defaults to single input power supply, optional dual input power supply; 100-500k defaults to dual input power supply, accessory to convert to single input is attached)
- Higher system operation efficiency, improve the conversion rate of electric energy, and reduce the loss of electric energy
- Better input performance indicators reduce the impact on the input power grid and reduce the capacity requirements for input power distribution and switching.
- A more intelligent UPS reduces the complexity of daily maintenance

Other advantages

- Compact design, high power density, save up to 35% floor space
- Large-screen LCD graphics display, providing more UPS operating parameter information
- Eaton's global unified production process and quality control
- Various communication options and industrial environment options

Technical Parameters

Power																			
Power rate	kVA	15	20	30	40	60	80	100	120	160	200	300	400	500					
	kW	13.5	18	27	36	54	72	90	108	144	180	270	360	450					
topological structure		Double conversion online, IGBT																	
UPS Rectifier input																			
topological structure		GBT, PWM modulation technique																	
rated voltage		380Vac/220Vac																	
voltage range		45%~25%, Varies depending on load																	
power factor		0.99																	
THD(i)		<5%						<3%											
frequency		50/60Hz self-adaption																	
frequency range		40 to 72Hz																	
UPS output																			
power factor		Default 0.9, optional 1.0						0.9											
efficiency		Up to 94%;ESS mode greater than 98%						Up to 96%;ESS mode greater than99%											
voltage		380Vac/220Vac +/-1%																	
overload capacity		105%,long-time running; 125%,10min																	
THDV		<2%																	
frequency		50/60Hz																	
Load unbalance		100%																	
Peak factor		3:1																	
Bypass																			
Bypass voltage		380Vac(+/-15%)																	
Battery																			
Battery mode		VRLA, AGM, Colloidal batteries, or Eaton designated brands and models of batteries, can support lithium batteries.																	
Backup time		Depends on battery pack capacity and operating conditions																	
Number of battery		External battery, default 36 (1) Built-in battery 93E15-40k, default 32; 93EXL15-40k, tacit acknowledgement of verse 36 ①						The default is 40 section ①											
Charging time		8 hours to 90% full capacity																	
Communication monitoring																			
Standard communication connector I		RS-232, Mini-Slot Communication slot																	
Communication accessories (optional)		Mini-Slot SNMP/WEB Card; Mini-Slot Modbus/Ethernet Card; Mini-Slot AS/400 Card																	
operating environment																			
operating temperature		0~40℃																	
storage temperature		-25~55℃																	
relative humidity		5%~95%																	
height		Less than 1000 meters, no derating																	
Noise dB		55 62			65			65			65 73								
EMC standard		IEC/EN 62040-2																	
Quality standard		S09001:2015,ISO14001:2004																	
certification		TLC(china)、CQC energy saving, seismic telecommunications equipment																	
Physical information																			
Size (WxD xH) mm	93E Built-in battery is not supported	350X796X800				600x800x1876		600x800x1876		600x830x1876		1600 x 820x1880							
	93E Optional built-in Battery ③	500x710 x960		500 x710 x1230		500x710 x1500													
	93EXL	600x800x1876																	
Weight Kg	93E built-in battery is not supported	61		61		66.5		74.5		202 245		272 299		427 427		860 970		990	
	93E Optional built-in battery ③	272		272		376		490		No built-in battery is available. An external battery cabinet is optional									
	93EXL take 6 groups inside storage battery	770		770		780		790											