



■ The 3-phase UPS for critical applications

High reliability and robust manageability

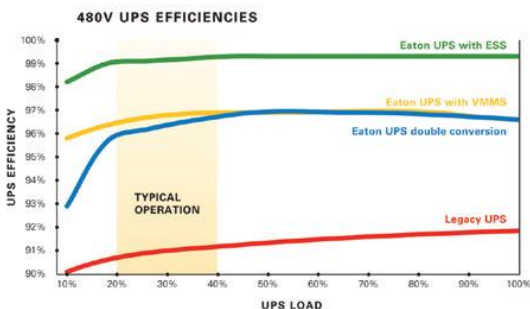
- Provides unity power factor plus capabilities, which allows the UPS to supply the reactive current for non-power factor corrected loads without the need for de-rating
- When at or below 50–75 percent capacity, the E power series performance uninterruptible power modules (UPMs) automatically act as N+1 redundant systems, saving the cost and space required for separate redundant UPS and battery systems
- Handles up to 0.9 leading load power factors without de-rating UPS capacity
- HotSync patented load-sharing technology enables parallel operating of static converters without communication for sync or load share signals

Scalability and flexibility

- Number of power modules per UPS can be specified, so capacity can flex to match data center growth

Layout can be chosen to suit installation, such as back-to-back, L - shaped or integrated into switchgear

- Preferred bypass topology can be centralized or distributed and additional modules can be added as power load increases
- Centralized multi-module paralleled E series systems are supported by the POWERTECH System Bypass Module (SBM)
- More than 90 percent of materials used can be recycled, decreasing end-of-life impact



Lowest total cost of ownership in the industry

- Energy Saver System (ESS) provides 99 percent efficiency without compromising reliability, by suspending power modules when double conversion is not required
- Lowers operational costs by delivering up to 97 percent efficiency in double-conversion mode
- Offers maximized efficiency in double conversion down to extremely light loads using Variable Module Management System (VMMS)
- Reduces HVAC costs by producing >33 percent less heat
- With up to 20 percent more power in the same footprint, the resulting 50 kW additional real power allows users to power 100 more servers, allowing for up to \$120,000 in additional revenue monthly*
- Delivers 100 percent conditioned, perfect sine-wave output by isolating output power from all input power anomalies
- Eliminates the cost of load bank rentals and minimizes burn-in testing energy costs with the Easy Capacity Test

ESS: How is it different than Eco mode?

- **Instantaneous action:** Less than two milliseconds transition time makes the UPS reaction time invisible to IT loads
- **Inherent surge suppression:** ESS provides transient suppression within the UPS—loads are protected from lightning events, even in ESS
- **Fault discrimination:** In a short circuit condition, the UPS detects the location of a fault (upstream or downstream), and reacts appropriately and instantly to protect the critical load



E Power Series (500-800) Kva

Capacity	500kVA/450kW	600kVA/540kW	800kVA/720kW		
	12P	12P	12P		
<i>Input</i>	Wiring connection	Three phase + Ground			
	Nominal Voltage	380/400/415Vac			
	Voltage frequency	285Vac~498Vac			
	Frequency	50/60 Hz			
	Frequency range	45-65 Hz			
	Soft start	5-600 sec settable			
	Power factor	0.95 (with input filter)			
<i>Bypass</i>	Nominal voltage	380/400/415Vac (Three phase + Neutral + Ground)			
	Frequency	50/60Hz±10%			
	Voltage range	±10%, ±15%, ±20% settable			
	Nominal voltage	380/400/415Vac (Three phase + Neutral + Ground)			
	Voltage regulation	±1% (balance load), ±2% (100% unbalance load)			
	Power factor	0.9			
	Dynamic response	±5% (0~100% load transient)			
<i>Output</i>	Distortion	<1% (100% linear load), <3% (100% non-linear load)			
	Transient response	<5ms			
	Sync. range	±2Hz (±0.5~±3Hz settable)			
	Overload	105% continue, 110% 1Hr, 125% 10min, 150% 1min			
	Frequency	±0.5%			
	Waveform	Pure sine wave			
	Inverter mode	Up to 97%			
<i>Efficiency</i>	ECO mode	98%			
	N+X	Max. 8 units			
<i>Battery</i>	Configuration	12V, 40 pieces default (38~42 pieces settable)			
<i>Display</i>	LCD+LED				
<i>Physical</i>	Dimension (mm)	Depth	855		
		Width	2700	3000	3800
		Height	1900		
	Weight(KG)	3000	3500	4100	
<i>Environment</i>	Temperature	0~40°C			
	Humidity	0~95% non-condensing			
	Noise (1 m)	71dB	73dB	76dB	
<i>Connective</i>	RS-232/(USB option)	Support windows 2000/XP/7/Linux/Unix/Mac			
	SNMP	Support remote control through web browser			
<i>Standard</i>	Safety	IEC60950-1, IEC62040-1-1			
	EMC	IEC62040-2, IEC62040-3			

