



ET Series Industrial Digital UPS

10kVA-120kVA 3:3 PF:1.0



Performance Characteristics

- DSP full digital control, stronger performance
- Advanced battery management technology, charge management technology designed according to the charge and discharge characteristics of the battery, effectively prolong the service life of the battery
- Equipped with combined utility power and battery power supply technology, support utility power and battery power distribution ratio setting, suitable for weak utility grid and large load working environment
- Strong load adaptability, can carry motor and impact loads
- Support 100% unbalanced load, single-phase full load, any two-phase full load, can operate normally
- With self-detection function, to ensure initial start-up safe
- With fan failure alarm, promptly notify users to replace it, to ensure reliable operation of the whole machine
- Unique structure design, full front maintenance, reliable wall installation for some models, easy maintenance
- Support ECO mode, efficiency up to 98% in ECO mode Support parallel function
- 7-inch LCD capacitive touch screen, providing users with intuitive and convenient operating experience Possess complete fault record, operation record and status record function to facilitate maintenance and repair
- Support RS232, RS485, CAN, USB, dry contact, SNMP card, WiFi/GPRS card, etc., to meet various needs

Applied Range

Industrial Automation, Data Centers, Communication Base stations, Petrochemical Industry, Rail Transportation, Healthcare, Broadcasting and Television, Military and National Defense

Series Overview

Prostar has meticulously and independently developed a new generation of ET series three-phase in three-phase out UPS systems. The design incorporates an advanced DSP digital processor and IGBT space vector pulse width modulation (SVPWM), which significantly improves upon the disadvantages of traditional analog devices circuits, such as low control accuracy and slow control speed. This enhancement effectively addresses the inherent issue of analog circuit parameter drift. System detection and control are faster, more accurate, and stable, comprehensively improving UPS reliability, power supply quality, and product consistency.

The new generation of ET series UPS systems, ranging from 10kVA to 120kVA, has an improved output power factor from 0.8 to 1.0. Considering the actual situation of most computer rooms having an advanced power factor, the new generation of UPS systems takes into account leading load characteristics, and optimizes the design accordingly. It can operate with all loads in the range of 1.0 lagging to 1.0 leading.

The UPS features DSP full digital control technology, advanced IGBT inverter technology, double conversion pure online technology, SCR static bypass technology, UPS protection technology, green power technology, battery management technology, parallel technology, and network monitoring technology. These nine technical advantages are integrated, digitized, intelligent, and modular, making the UPS a truly new generation of uninterruptible power supply.



Technical Specification

Model	ET10K	ET15K	ET20K	ET30K	ET40K	ET50K	ET60K	ET80K	ET100K	ET120K
Capacity (VA/W)	10K/10K	15K/15K	20K/20K	30K/30K	40K/40K	50K/50K	60K/60K	80K/80K	100K/100K	120K/120K
Size (WxDxHmm)	500x700x1300			600x700x1600			700x800x1800			
Weight (Kg)	150	160	165	200	240	320	440	560	600	650
Input	Input Phase Number	3 phases 5 wires (3Ph+N+PE)								
	Input Rated Voltage	380VAC/400VAC/415VAC (Default 380VAC)								
	Variable Input Voltage Range	304V-456V								
	Input Frequency Variation Range	40Hz-70Hz								
	Input Power Factor	>0.95								
	Input Current Limit	1.25 times the rated current (0.1-1.25 can be set)								
	Rectifier Delay Start Range	Default 10s (1-300s can be set)								
	Bypass Input Voltage Range	Upper limit 10%, 15%, 20%, 25% can be set, Default 20%; Lower limit 10%, 20%, 30%, 40%, 50%, 60% can be set, Default 20%								
	Battery Voltage	Default 360VDC (336VDC, 348VDC, 372VDC, 384VDC can be set)								
	Number of Batteries	Default 12V 30 section (28-32 sections can be set)								
Battery Charging Current	Charge rate × battery capacity × battery pack number (charge rate, battery capacity, battery pack number can be set)									
ECO Mode	Bypass Voltage Range	Upper limit 5%,10%,15% can be set, Default 5%; Lower limit 5%,10%,15% can be set, Default 5%								
	Bypass Frequency Range	±1Hz,±2Hz,±3Hz can be set, Default ±2Hz								
Output	Output Phase Number	3 phases 5 wires (3Ph+N+PE)								
	Rated Output Voltage	380VAC/400VAC/415VAC (Default 380VAC)								
	Output Voltage Regulation Accuracy	±1%								
	Output Voltage Fine Adjustment	0V(±1~±5V can be set)								
	Output Frequency Accuracy	Mains mode: tracking bypass input in synchronization state; battery mode: 50Hz/60Hz±0.1%								
	Output Power Factor	1.0								
	Output Waveform Distortion	<2% (Resistive load); <5% (non-linear load)								
	Waveform	Pure sine wave								
	Output Current Crest Factor	3:1								
Inverter Overload Capacity	When the load is <105%, it can work for a longtime; when 105%<load < 110%, it will switch to bypass output after 60 minutes; when 110%< load<125%, switch to bypass output after 10 minutes; when 125% <load< 150%, switch to bypass output after 1 minute; when load> 150%, switch to bypass output after 200 milliseconds									
System Indicators	System Efficiency	Online mode: >93%, ECO mode: >98%								
	Switching Time	0ms								
	Number of Parallel	≤8 sets								
	Protective Function	Output short circuit protection, output overload protection, over temperature protection, battery low voltage protection, output over and under voltage protection, fan failure protection, etc.								
	Communication Interface	Standard configuration: USB, CAN, EPO, RS232, RS485, dry contact; Optional configuration: SNMP card, temperature compensation accessories								
	Display	7 inch LCD touch screen								
Working Environment	Operating Temperature	0-40°C								
	Storage Temperature	-25°C-55°C(Exclude battery)								
	Relative Humidity	0%-95% (No condensation)								
	Altitude	Altitude < 1000M,exceed 1000M,Power with increase of 100M it will reduce 1%								
	Degree of Protection	IP30								
	Noise	< 65dB (1 meter from the device)								