



# ET PRO Series Industrial Digital UPS

10kVA-160kVA 3:3 PF:0.8



## Performance Characteristics

- High-performance DSP full digital control
- Advanced battery management technology(ABM), extending the battery service life according to the charging and discharging characteristics 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
- Great load adaptability for various loads, like motor, impact, inductive, capacitive, non-linear, etc
- Support 100% unbalanced load, single-phase full load, any two-phase full load
- With self-detection function to ensure UPS initial start-up safety
- With fan failure alarm function to notify the users to replace it in time to ensure the reliable operation of the UPS system
- Unique structure design, full front maintenance, installation against the wall 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
- Complete data log for fault record, operation record and status record to be convenient for maintenance
- 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 the ET PRO series, featuring a three-phase in three-phase out UPS. The design incorporates an advanced DSP digital processor and IGBT Space Vector Pulse Width Modulation (SVPWM), which significantly improves upon the drawbacks of traditional applications that rely on numerous analog device circuits with low control accuracy and slow control speed. This technology not only effectively addresses the drift issue of analog circuit parameters, but also offers faster, more precise, and stable system detection and control, ultimately enhancing UPS reliability, power supply quality, and consistency.

The online technology provides complete isolation and protection against all power quality disturbances, even in the most demanding environments. Its compact design, high-density technology, N+1 redundancy, and fault-tolerant architecture optimize availability, operational efficiency, and critical load protection while minimizing the total cost of ownership.The ET PRO series operates with high efficiency in either double conversion or ECO mode, conserving valuable energy and reducing costs. A comprehensive range of options allows the ET PRO series to excel in any application.

The output electrical performance is fully compatible with today's latest load requirements, including upstream harmonics management for generator-friendly installation and flexible configurations due to the extensive variety of integrated options and auxiliary equipment. Furthermore, the integration, digitization, intelligence, and modularity of the system make it the next-generation multi-functional online UPS.



## Technical Specification

Model	ET10K-Pro	ET15K-Pro	ET20K-Pro	ET30K-Pro	ET40K-Pro	ET50K-Pro	ET60K-Pro	ET80K-Pro	ET100K-Pro	ET120K-Pro	ET160K-Pro
Capacity (VA/W)	10K/8K	15K/12K	20K/16K	30K/24K	40K/32K	50K/40K	60K/48K	80K/64K	100K/80K	120K/96K	160K/128K
Size (WxDxHmm)	500x700x1300					600x700x1600			700x800x1800		
Weight (Kg)	140	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 Accurac		±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		0.8								
	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 rontact; Optional ronfiguration: 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)								