

PHD POWERHOUSE

Reliable Power Solutions

- SUPPORTS ALL KINDS OF LOAD, HIGH OVERLOAD CAPABILITY

- FULLY DIGITALLY CONTROLLED WITH THREE DSP'S FOR IGBT RECTIFIER, INVERTER AND BATTERY CHARGER

- DIGITAL CIRCULATING CURRENT CONTROL TECHNOLOGY, INCREASING PARALLEL RELIABILITY

- GREEN POWER TECHNOLOGY, HIGH INPUT POWER FACTOR, LOW CURRENT THD, HIGH EFFICIENCY

- INTELLIGENT SELF-DIAGNOSE FUNCTION, ALL KINDS OF FAULT PROTECTION, LARGE EVENT LOG CAPABILITY

- REDUNDANT DESIGN OF POWER MODEL FANS, INCREASING SYSTEM RELIABILITY

- HIGH MTBF (MEAN TIME BETWEEN FAILURES) (>200,000 HOURS), LOW MTR (MEAN TIME TO REPAIR) (<0.5 HOURS)

T6I SERIES (10kVA-120kVA)

ST6I (10kVA-400kVA) features true on line double conversion and zero sec. transfer time. The features include full digital control with DSP's for IGBT rectifier, inverter and battery charger.

COLD START FUNCTION

Due to a special current limiting circuit on the UPS, the user can start the UPS directly from the battery bank connected for emergency situations in a no mains situation. The UPS can run on cold start on full load.

FULL FUNCTION LCD DISPLAY

All ST6I series products above 40kVA are equipped with a large touch screen LCD display. Units below 40kVA have an LCD display with keyboard input. They also feature real time surveillance on UPS running parameters and status, FE and daily maintenance.

The ST6I features an Intelligent battery management system while batteries are being charged and discharged for longer operational life and higher reliability of the batteries.

FLEXIBLE NET PROJECT MONITORING

Independent digital remote control, supported by RS485, with a range of 1000 meters or SNMP network adapter.

ADVANCED NON-MASTER-SLAVE SELF-ADAPTIVE CONTROL TECHNOLOGY (PARALLEL TYPE)

ST6I series parallel UPS features a powerful parallel capacity. There is no need to set the parallel units. The user can extend the parallel capacity as needed for N+1 parallel redundancy. This increases the reliability of the power system.



STAR
T6I SERIES
10kVA -120kVA



POWERHOUSE

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Model	ST6010I	ST6015I	ST6020I	ST6030I	ST6040I	ST6060I	ST6090I	ST6120I
Input								
Voltage	380/400/415VAC (Line to Line), 50/60Hz							
Input Connection	3Ph+N+PE							
Power Factor	>0.99							
Input Voltage Window	+25% ~ -20%							
	-20% ~ -40%, power derating between 100% to 70%							
Frequency Window	40-70Hz							
Battery								
Battery Voltage	±240Vdc							
Charge Power	20%*Power							
Max. Internal Batteries	40 x 12Ah				External Only			
Output	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	90kVA	120kVA
Voltage Precision	1% (balanced load), 1.5% (unbalanced load)							
Output Voltage Transient	5% (0-100% load step)							
Voltage THD	THD < 1% (linear load), THD < 5% (non-linear load)							
Power Factor	0.9							
Frequency Tracking Range	50/60Hz ± 3Hz, adjustable							
Frequency Precision	±0.02%							
Crest Factor	3:1							
Overload Capability	102% continuous, 110% for 1 hour, 125% for 10mins, 150% for 1 min, > 150% for 200ms							
Bypass Overload	125% continuous, 130% for 1 hour, 150% for 6 mins, > 1000% for 100ms							
System								
Efficiency	Normal Mode: 95%, ECO Mode: 99%							
Battery Configuration	12V, 40 PCS (36-44PCS acceptable)							
Display	LCD, LED + Keyboard					LCD, LED, Touch Screen and Keyboard		
EMI	IEC62040-2							
EMS	IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge)							
IP Class	IP 20							
Communication	RS232, RS485, Dry Contacts, SNMP, EPO, Generator Interface							
Operating Temperature	0-40°C							
Relative Humidity	0-90% (non-condensing)							
Noise	<55dB							
Weight (w/o battery)	51.5		89		61	170	231	266
Dimensions (W x D x H, mm)	250 x 840 x 715		350 x 738 x 1335		250 x 836 x 770	600 x 980 x 950	600 x 980 x 1400	

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