

Reliable Protection for Mission-Critical **Applications**

10 - 15 kVA/kW Three Phase UPS 220/127V

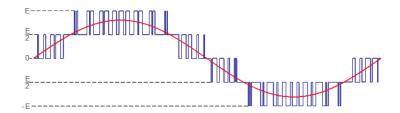


- 3-level IGBT technology
- Advanced dual core DSP control technology and Active power factor correction technology, input power factor up to 0.99
- Independent bypass (Dual input)
- Output power factor 1.0
- Wide input voltage range (110 ~ 295)VAC
- Frequency converter function 60->50Hz & 50->60Hz
- Intelligent fan speed, reducing noise and extending
- Conformal coating technology makes UPS operate in harsh environment
- Cold start function
- 5 inches LCD colorful touch screen, friendly human & machine interface

- Advanced multi-platform communication: RS232, USB, RS485, dry contacts, SNMP card
- Intelligent battery management, automatic charging and dormancy control, the reliability of charger and extending the battery life improving
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future
- Conformal coating on electronic PCB, for working harsh environment for a long time
- Ready for Lithium battery banks

3-level topology

UPS 3-Phase Powersan series include a 3-level IGBT topology, increasing their operating efficiency.



Complete protection



Blackouts



Spikes



Harmonics



Transient



Frequency variation



Noise



Sags/swells





Surges



Under-voltage

Applications

Protection for critical equipment in Data Centers, financial centers, government, education, hospitals, computing, PLC, security systems, telecom, etc.







MODEL	PS33-10TL	PS33-15TL
Ratings	10 kVA/ 10 kW	15 kVA/ 15 kW
Topology	True double-co	nversion online
INPUT		
Nominal voltage	208, 220 VAC (3Ph, N + G)	
Voltage range	(128 ~ 260) VAC, Line voltage (73 ~ 150) VAC, Phase voltage	
Frequency	50/60 Hz (auto-sensing)	
Rated frequency	(40 ~ 70) Hz	
Power factor	≥0.99 typical	
Total harmonic distortion (THDi)	≤ 3% (linear load); ≤ 5% non-linear load)	
Connection type	Hardwire terminal block; Input and Bypass (3Ph, N + C)	
OUTPUT		
Rated voltage (selectable by LCD display)	(3Ph, N + G) 190 / 208 / 220 VAC; Line voltage 110 / 120 / 127 VAC; Phase voltage	
Voltage regulation	±1	%
Frequency (synchronized with Input)	(55 ~ 65)Hz @ 60 Hz; (45 ~ 55)Hz @ 50Hz	
Frequency (Battery mode)	50/60 Hz	: ±0.1 Hz
Power factor	1.	0
Waveform	Pure sine wave	
Crest factor	3:	1
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3	% (non-linear load)
Overload capacity	105% ~110% @ 60min, 110% ~ 125% @ 10min, 125% ~ 150% @ 1min, >150% @ 30 sec	
Connection type	Hardwire terminal block; Output (3Ph, N + G)	
BATTERY		
Battery type	Lead Acid Batteries (VRLA) default, and ready for Lithium	
DC bus voltage; battery quantity	±120 VDC; (20 batteries per string)	
Backup time 50% load Internal battery in UPS	1 strings: (9Ah/12V)(20)= 9.5 min 2 strings (9Ah/12V)(40)= 24 min	2 strings (9Ah/12V)(40)= 14 min 3 strings (9Ah/12V)(60)= 24 min
Backup time 100% load Internal battery in UPS	1 strings: (9Ah/12V)(20)= 4 min 2 strings: (9Ah/12V)(40)= 9.5 min	2 strings (9Ah/12V)(40)= 5 min 3 strings (9Ah/12V)(60)= 9.5 min
Charger current	1 ~ 10	Amp
External battery bank connection type	Hardwire terminal block (Positive, Negative & Neutral)	
UPS SYSTEM		
Efficiency Line mode	93%	
Efficiency ECO mode	98%	
Max. parallel UPS	Up to 4 units	
Control panel	LCD 5" color touch screen + LED status indicator + Audible alarm	
Smart protection	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage, fan failure, etc.	
Frequency converter mode	Integrated	
ENVIRONMENT		
Audible noise	≤60dB (full load) @ 3.8 ft (1 m.)	
Relative humidity	0 - 95% (non-condensing)	
Operating temperature	(32 ~ 104)°F; (0 ~ 40) °C	
IP Level	IP 20	
PHISICAL		
Dimensions	(9.84 x 31.49 x 27.55) in	(27.55 x 33.07 x 36.61) in
(Width x Depth x Height)	(250 x 800 x 700) mm	(250 x 840 x 930) mm
Weight (without internal batteries)	136.68 lb (62 kg)	216.05 lb (98 kg)
Weight (1 String: 20 internal batteries)	255.73 lb (116 kg)	NA
Weight (2 String: 40 internal batteries)	374.78 lb (170 kg)	374.78 lb (170 kg)
Weight (3 String: 60 internal batteries)	NA	493.83 lb (224 kg)
MANAGEMENT & CONTROL		
Communication ports	RS232, USB, RS485, dry contacts, Intelligent slot (SNMP), parallelports.	
Intelligent slot	SNMP, Wi-Fi, Dry Contact card (optional)	
Intelligent slot		



*If the UPS operates at an altitude above 1500m, the output power should be reduced by 1% for each additional 100m **Product specifications are subject to change without notice. USA-V2510-REV1.0

