

## GreenPRO Industrial UPS Series

**Technology:** Online Double Conversion

**Rating:** 10kVA – 800kVA

**Voltage:** 400VAC

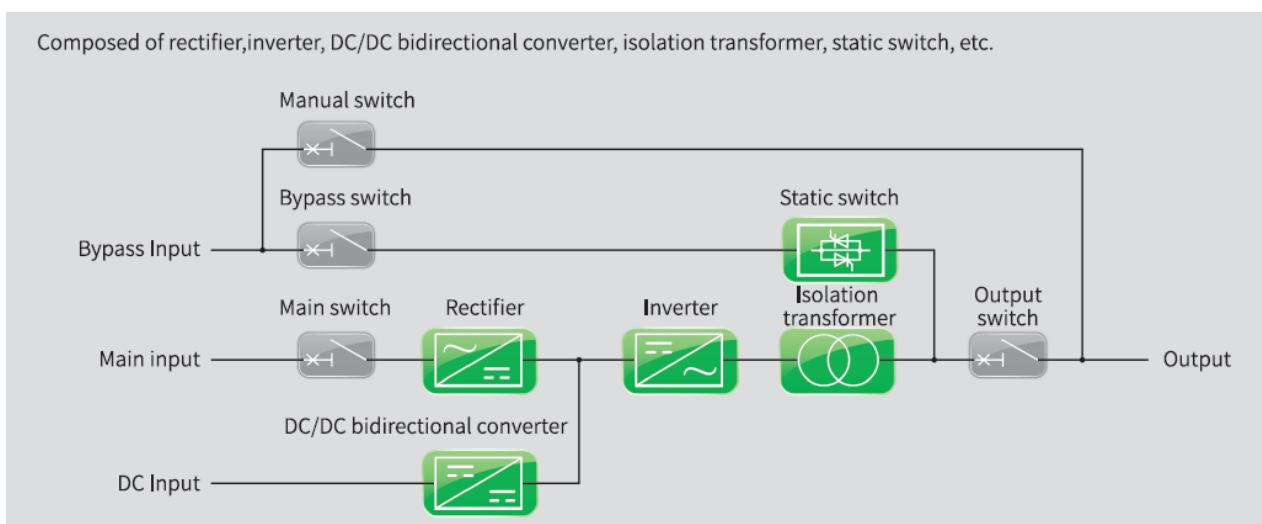
**Configuration:** Cabinet

The GreenPRO Industrial UPS series adopts advanced dual DSP + FPGA full digital control technology, active power factor correction technology, space vector pulse width modulation (SVPWM) technology, DC/DC bidirectional conversion technology, etc.



### Product Highlights:

- Dual DSP+FPGA, high peripheral integration, large data and program storage, accurate A/D conversion, which all work to enhance the product reliability;
- The rectifier adopts a three-phase IGBT rectification topology, through active power factor correction technology, the input power factor is 0.99, and the input current harmonic distortion rate is <3%;
- The inverter uses space vector pulse width modulation (SVPWM) technology to improve DC utilization while greatly improving product stability and efficiency, with 100% unbalanced load capacity;
- DC/DC bidirectional conversion technology is adopted on the DC side, which has perfected the battery management functions;
- Adopting N+X non-master-slave adaptive parallel connection technology, on-site debugging is convenient and fast, easy to achieve multiple parallel connection ;
- Standard output isolation transformer to achieve electrical isolation between UPS equipment and output load;
- High-power density design with compact structure.
- Isolation duct design is adopted to isolate the control part, power circuit and magnetic component duct, to improve the dust-proof ability of the plate effectively and enhance the adaptability of the equipment to environmental conditions;
- Friendly human-computer interface for easy operation with high-resolution touch screen;
- Perfect communication function. It can communicate with terminal monitoring, BMS and other devices through RS485, RS232, RJ45 and other communication interfaces.



GREENPRO INDUSTRIAL UPS SERIES TECHNICAL SPECIFICATIONS																			
Type	Rated Output (kVA)	10	20	30	40	50	60	80	100	120	160	200	250	300	400	500	600	800	
	Battery Voltage	348VDC						480VDC											
	Battery Voltage Range	305-442VDC						420-612VDC											
	Charging Function	Standard Configuration																	
	DC Cold Start	Standard Configuration																	
AC Input	Electricity Input Voltage (VAC)	380/400/415VAC																	
	Voltage Range	±25%																	
	Frequency (Hz)	50/60Hz (Adjustable frequency range: ±5%/±10%)																	
	Power Factor	≥0.99																	
	Current Harmonic Rate	≤3%																	
Bypass	Bypass Input Voltage (VAC)	380/400/415VAC																	
	Bypass Input Frequency (Hz)	50/60Hz(Adjustable frequency range ±5%/±10%)																	
AC Output	Output Voltage (VAC)	3P4W,380/400/415VAC ±1%																	
	Frequency (Hz)	Tracking: 50/60Hz ± 5% / 10% (Determined by frequency tracking range) Natural vibration frequency: 50/60Hz±0.1%																	
	Power Factor	0.8																	
	Wave Form	Sine Wave																	
	Voltage Distortion	≤1%(Linear Load); ≤3%(Non-linear Load)																	
	Crest Factor	3:1																	
Display & Alarm	Display & Alarm	LED, Touch screen, Buzzer																	
	Protection	High/low voltage limit protection, Over temperature protection, Overload protection, Short circuit protection																	
	Communication	RS232/MEGATEC protocol, RS485/MODBUS protocol, 8 sets of switch alarm connection (optional: WEB/SNMP management card)																	
Standards	UPS	Compliance with IEC62040-3																	
	Low-voltage Unit	Compliance with IEC439-1,439-2,439-3																	
	Electromagnetic Compatibility	Compliance with IEC62040-2																	
	Radiation and safety	Compliance with FCC CLASS A, CE																	
	EMC/EM	Conductivity	Compliance with EN50091-2																
Radiation		Compliance with FCC CLASS A																	
Harmonic Current		Compliance with IEC1000-3-4																	
Immunity		Compliance with EN61000-4-2.3.4.6.8.9.11 Level III, Compliance with EN61000-4-5 Level IV																	
Overall Specification	Rectifier	IGBT																	
	Inverter	IGBT																	
	Cabinet Protection Level	IP20 (Protection level can be customized)																	
	Overall Efficiency	Up to 94%																	
	Overload Capacity	125%:10min; 150%:1min; 200%:1s; >200%: 100ms																	
	Noise (1 meter from the front)	<60dB						<68dB						<72 dB					
	Operating Temperature	-5°C~40°C (23°F~104°F)																	
	Relative Humidity	0~95% (No condensation)																	
	Size(mm) W×D×H	600×800×1800						800×850×1900			1000×850×1900			1500×1000×1900		2200×1000×1900		3200×1000×1900	
	Weight(kg)	380	400	430	480	550	600	800	900	1000	1150	1250	1350	1800	2000	2800	3000	3950	
Rated Output (kVA)	10	20	30	40	50	60	80	100	120	160	200	250	300	400	500	600	800		

\* Specifications are subject to change without prior notice

For any enquiry, please contact:

**APECUS** TECHNOLOGIES PTE LTD

7030 Ang Mo Kio Ave 5

#06-50 Northstar@AMK

Singapore 569880

Tel: (65) 65708068

Fax: (65) 65708066

Website: www.apecus.com

Email: sales@apecus.com

Copyright © 2019 APECUS TECHNOLOGIES

All rights reserved

Printed in Singapore