

■ Super-efficient, Compact Design all in  
Clean Power Plus Tower Series 6-20Kva



Clean Power Plus Tower 6Kva-10Kva, single phase and 10Kva-20Kva 3phase /1phase, is a powerful product range with high adaptability and flexibility. Its cut-edge digital control technology of dual high speed DSP (Digital Signal Processor), can greatly improve the product performance and system reliability, and deliver a compact integration with higher power density. The Clean Power Plus Tower Series designed, developed and tailored completely for AC Grid Environment

Output power factor up to 0.9 or 1 – applicable to the tendency of future load evolution, and deliver higher payload capability.

Total power factor up to 99% can minimize the power loss of UPS and utilization cost for user. Active power factor correction (PFC) technology allows the input power factor approaching to 1, dramatically reducing the immunity on utility grid. Excellent input frequency range makes UPS suitable for different power supply devices, i.e. Diesel generator set. This UPS has ability for flexible Configuration as Demand

**High Scalability:**

Fully meet the customer's demands by using parallel ability up to 8 UPS systems.

**Online Intervention:**

safe and online intervention without any power supply interruption to load.

**Emergency Power Off (EPO):**

UPS can be instantly shut off in case of any emergency.

**Parallel Kit:**

Realize the parallel extension and redundancy function, offer more flexibility and safety for user's power supply planning.

Compact Design, Lower Noise with leading control technology and craftsmanship, this UPS can greatly increase the power density and reduce the footprint, therefore save more

expensive space in your office environment. Additionally, its lower noise during operation can allow you a more comfort working environment.

**Perfect failure protection and alarm function:**

provide complete failure protection and clear alarm notification function in case of I/O over-voltage or under-voltage, battery over-charge or under-voltage, overload, and short circuit.

**High Reliability**

Its cut-edge digital control technology of DSP (Digital Signal Processor) can deliver higher quality, performance and reliability and can be suitable to all severe environments. Higher payload and overload capability, better load compatibility, and suitable for various load type. Powerful Interference immunity capability in compliance with EMC requirements of IEC61000-4, deliver your device a clean electric environment.

Large LCD display with multi information and for Easy Maintenance

LCD displays input/ output voltage, current, frequency, battery condition, load percentage, watts, VA, working mode and necessary information etc.

If any important fault happens, UPS will detect it automatically and shows on the LCD for easy maintenance and troubleshoot.

192VDC or 240VDC convertible via jumpers for number of batteries.

Auto Control running fan, 4levels of speed based on the load percentage, makes high level of energy saving

Event log function, can record 100 events, it would be easier for maintenance process

Rich Communication and Monitoring Features, Provide RS232 interface and communication cable for local; remote management and monitoring function. (SNMP), CMC, or AS400 card (dry contact) Intelligent dual DSP and 25A charger (option)



## Clean POWER Plus Tower Series (6-20) Kva UPS

	CPPT6S	CPPT10S	CPPT15S	CPPT20S
	CPPT6L	CPPT10L	CPPT15L	CPPT20L
<b>INPUT</b>				
Cold Start	YES			
Default output frequency will be 50Hz or settable				
Acceptable Input Voltage	110VAC~288VAC			
	100% load@>176VAC		100% load@>304VAC	
	90% load@>154VAC		90% load@>266VAC	
	75% load@>132VAC		75% load@>228VAC	
	50% load@>110VAC		50% load@>190VAC	
Phase	1ph/1ph	1ph/1ph or 3ph/1ph	3ph/1ph	
<b>Input Current</b>				
Rating(nominal input voltage)	30A/220V	49A/220V	42A/380	52A/380
	34A/220V	53A/220V	45A/380	56A/380
Input Power Factor	0.99			
Input current distortion	<4%		<3%	
Input Frequency Range	40~70Hz			
<b>OUTPUT</b>				
Frequency adaptable	Settable			
Power	Settable			
-Power	6KVA	10KVA	15KVA	20KVA
-Power(kW)	6KW	10KW	15KW	20KW
<b>Output Voltage</b>				
-Waveform (Bat. Mode)	Pure Sine Wave			
-Nominal voltage	220VAC/230VAC/240VAC, 200VAC/208VAC(PF=0.9)			
-Voltage regulation	± 1 %			
-Voltage distortion	1% THD, linear load			
	5% THD, nonlinear load			
Output Frequency	Settable			
-Synchronization range	±5Hz default, settable			
-Battery mode	(50±0.01) Hz default			
<b>Transfer Time</b>				
-Line mode to battery mode	0ms			
-Inverter to bypass	0ms			
<b>Efficiency</b>				
-Line mode with battery full charged	94.6% @100% load, 95% @60% load			
-ECO mode	99.00%			
Noise(1m away)	<58dB			
Overload Capability(Inverter)	105% to 110% : Transfer to bypass after 10 mins.			
	111% to 125% : Transfer to bypass after 1 mins.			
	126% to 150%: Transfer to bypass after 30s			
Overload Capability (Bypass Mode)	less than 125%: long time running			
	126% to 130% :Shutdown in 5 mins			
	131% to 150% :Shutdown in 1 mins			
	> 150% :Shutdown in 200 ms			
Crest Ratio	03:01			
<b>BATTERY</b>				
	12VDC/7Ah	12VDC/9Ah	12VDC/9Ah	12VDC/9Ah

# Unity Output Power Factor Makes Us different



<i>Rating/Type</i>	Depend on the capacity of external batteries			
<i>Quantity</i>	16PCS default, 20PCS settable			
<i>DC Voltage</i>	192VDC default, settable			
<i>Back-up Time</i>	3mins @5kW		2mins @8kW	
	Depend on the capacity of external batteries			
<i>-Charging current (max)</i>	<i>Charger</i>			
	1A, settable			
<i>-Float Charging Voltage</i>	12A max, settable (optional: Super charger 25A or 30A)			
<i>-Boost Charging Voltage</i>	2.25V/cell default, settable via software			
<i>-Charging time</i>	2.25V/cell default, settable via software			
	8h recharge to 90% (standard Model)			
<i>Leakage current</i>	Depend on the capacity of external batteries, normally lower than 8 hours			
<i>-Display</i>	<i>Indicator &amp; Alarm</i>			
	<3mA			
<i>-Smart RS232</i>	<i>Interface</i>			
	LED+LCD			
<i>-EPO</i>	Standard Cable support POWERTECH Power Monitor Software			
<i>-RS485(option)</i>	Yes			
<i>-SNMP(option)</i>	Installed in the intelligent slot			
<i>-Intelligent Kits</i>	Power Management from SNMP Manager and Web Browser			
	<i>Option</i>			
<i>-parallel</i>	DB9 port, dry contact			
<i>-Super charger (30A)</i>	8 units paralleled			
<i>-USB</i>	digitally controlled, 4-steps charge, settable			
<i>-SNMP Kits</i>	B-type USB port			
<i>-W\ D\ H (mm)</i>	<i>Mechanical</i>			
	190*426*705	190*485*705	250*562*650	250*562*710
	190*426*336	190*485*336	250*562*650	250*562*710
	56	60	75	85
	14	16	31	38
<i>-Net Weight (KG)</i>	60	65	82	93
<i>-Package Weight (KG)</i>	16	18	35	41
<i>-Rack / Tower</i>	Tower			
<i>FUNCTION</i>	Compatible with half wave load			
	Main input breaker			
	Bypass input breaker			
	ECO mode			
	Battery cabinet			
	Self-aging			
	Digital Charger			
	Remained Battery Capacity			



We are innovation leaders, technology is in our hands

Clean Power Plus Tower Series, ranging from 6 KVA to 20 KVA, is a double conversion online UPS with fully dual DSP controlled technology. The single phase UPS applies the advanced 3-level inverter technology, achieving efficiency up to 95%. With its compact design of high power density (kW=kVA), Clean Power Plus series is an ideal choice for computers, telecommunication equipment and other sensitive devices.

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