



Upto 900VA



Upto 1700VA



Upto 10KVA



CONTEC POWER SYSTEMS LIMITED

PRODUCT SPECIFICATION

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Product Specification 700VA to 10kVA Home UPS, Electric Inverter/ Static Converter/HUPS

Model Name		CP 900		CP 1700		CP 2500	CP 3500	CP 6000	CP 10000
Mains AC low cut UPS mode	175VAC ± 10VAC								
Mains AC high cut recovery WUPS mode	285VAC ± 10VAC								
Input Frequency Range	40Hz to 60Hz								
Voltage Output in Mains Mode	Same as input								
Frequency Output in Mains Mode	Same as input								
Battery									
Battery Type	LA / Tubular / SMF								
DC input voltage	12V	24V	36V	48V	72V	120V			
Battery Quantity 12V 100Ah to 220Ah	1	2	3	4	6	10			
Float charging voltage	13.7V±0.2V	27.4V±0.4V	41.1V±0.6V	54.8V±0.8V	82.2V±1.2V	137V±2.0V			
Boost charging voltage for Tubular and SMF Battery	14.0V±0.2V	28.0V±0.4V	42.0V±0.6V	56.0V±0.8V	84.0V±1.2V	140V±2.0V			
Boost charging voltage for LA Battery	14.5V±0.2V	29.0V±0.4V	43.5V±0.6V	58.0V±0.8V	87.0V±1.2V	145V±2.0V			
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)								
Battery High Cut	15.5V±0.2V	31.0±0.4V	46.5V±0.6V	62.0V±0.8V	93.0V±1.2V	155V±2.0V			
Charging Current 100Ah-135Ah Setting (Input range 135VAC to 295VAC)	12A ± 1A								
Charging Current 150Ah-220Ah Setting (Input range 135VAC to 295VAC)	15A ± 1A								



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Backup Mode

Output voltage	220VAC +5% -10% (untill battery low alarm)								
Output frequency	50Hz ± 0.2 Hz								
Output waveform	Pure Sine Wave ≤ 5% THD								
No Load current	≤ 4% of rated capacity								
Capacity	700VA	900VA	1100VA	1700VA	2000VA	2500VA	3500VA	6000VA	10kVA
Capacity Resistive Bulb Load	490W	630W	770W	1190W	1400W	2000W	2800W	4800W	8000W
Discharging current @ full load	44A ± 2A	50A ± 2A	60A ± 2A	50A ± 2A	60A ± 2A	50A ± 2A	50A ± 2A	60A ± 2A	60A ± 2A
Low Battery Warning	11V±0.2V			22V±0.4V		33V±0.6V	44V±0.8V	66V±1.2V	110V±2.0V
Low Battery Cut	10.8V±0.2V			21.6V±0.4V		32.4V±0.6V	43.2V±0.8V	64.8V±1.2V	108V±2.0V
Change over time UPS mode	< 10msec								
Change over time WUPS mode	< 25msec								
Crest Factor	1 : 5								
Peak Efficiency	80%	82%	82%	85%	85%	90%	90%	92%	92%

Protections

Overload in backup mode	<p>≤ 100% Load Continuously run</p> <p>>100% to <120% Load, System will shut down in 2min</p> <p>>120% to <140% Load, System will shut down in 1 min</p> <p>>140% to <160% Load, System will shut down in 17sec</p> <p>>160% to <180% Load, System will shut down in 6sec</p> <p>>180% to <200% Load, System will shut down in 3sec</p> <p>>200% Load, System will shut down in 850msec</p>								
Short Circuit in Backup Mode	System will shutdown after 3 - retries in case of output short circuit								
Short Circuit in Mains Mode	Mains Fuse will belown				Mains MCB will trip				
Over tempature	Yes provided, if heatsink tempature goes above 100°C System will shut down								
Revrse Battery	DC fuse will belown								
Phase to Phase protection in mains mode	Yes provided by electronic								



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Display and Alarms

LCD Initial Display	Welcome, Contec Website Address, System Capacity, Charging Till 90VAC and Deep Discharge Battery, System Setting, UPS / WUPS mode, I/P range 90-295VAC / 170-265VAC, Battert Type Selected LA / SMF / Tubular, Battery Capacity Selected 100-135Ah / 150-200Ah,
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS OFF, Battery Voltage, Load %, Output Voltage, Output Frequency, Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut
LCD Fault / Protection Status Display	Mains Fuse Belown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Backfeed
Buzzer	Audible beep for Overload, Short Circuit, Backfeed, Low Battery, Over Temperature, Mains Fuse below / MCB Trip

Safety

HV Test Input to Earth	Leakage current <5mA when 1.5kV applied for 1 min
HV Test Output to Earth	Leakage current <5mA when 1.5kV applied for 1 min
IR Test Input to Earth	>5MΩ between @ 500VDC
IR Test Output to Earth	>5MΩ between @ 500VDC
Earth Leakage current in Mains mode	< 2.5mA
Earth Leakage current in Backup mode	< 2.5mA

Environment

Operating Temperature	0°C to 40°C
Storage Temperature	0°C to 50°C
Operating Relative Humidity	90% Non-Condensing

Weight and Dimentions

Dimentions in mm	270x190x125			340x230x260		350x230x310			
Weight	8.5kg	9.35kg	9.5kg	15.9kg	18.5kg	21.4kg	26.3kg		

Disclaimer : Due to continuous research and development, the specification is subject to change without any notice