

MODEL	CPS006TM	CPS008TM	CPS010TM	CPS015TM	CPS020TM	CPS010TT	CPS015TT	CPS020TT	CPS030TT	CPS040TT
Usage load according to EN50171	5 kVA / 5 kW	6 kVA / 6 kW	8 kVA / 8 kW	12 kVA / 12 kW	16 kVA / 16 kW	8 kVA / 8 kW	12 kVA / 12 kW	16 kVA / 16 kW	24 kVA / 24 kVA	32 kVA / 32 kVA
MAIN INPUT										
Grid system	3F+N+PE / 1F+N+PE					3F+N+PE				
Rated voltage / Frequency	380/400/415 VAC (3 ϕ), 220/230/240 VAC (1 ϕ), 50/60 Hz					380/400/415 VAC, 50/60 Hz				
Voltage range	320~480 VAC full load, 240~480 VAC at 50% load (3 ϕ) 184~276 VAC full load, 140~276 VAC at 50% load (1 ϕ)					320~480 VAC full load 240~480 VAC at 50% load				
Maximum input current	14 A (3 ϕ) 42 A (1 ϕ)	17 A (3 ϕ) 51 A (1 ϕ)	17 A (3 ϕ) 51 A (1 ϕ)	31.5 A (3 ϕ) 94.5 A (1 ϕ)	40 A (3 ϕ) 120 A (1 ϕ)	21 A	31.5 A	40 A	63 A	80 A
Frequency range	40~72 Hz (rectifier operating range)									
Power factor	0.99									
Current THDi	≤4%	≤3%	≤2.5% (1 ϕ), ≤3% (3 ϕ)			≤3%				
OUTPUT										
Rated voltage / Frequency	220/230/240 VAC, 50/60 Hz					380/400/415 VAC, 50/60 Hz				
Load power factor	1									
Sinewave	Pure sine wave									
Voltage THDv	<1% (linear load) ≤1.5% (non-linear load)									
Voltage precision	±0.5% (0-100% linear load)									
Inverter overload	<120% long term operation, 120-132%, 60 minutes, 132-150%, 10 minutes, 150-180%, 1 minute, 180-240%, 0.5 seconds, >240%, 0.2 seconds,									
Bypass overload	132% long term operation, 132-150%, 60 minutes, 150-180%, 10 minutes, 180-240%, 1 minute, >240%, 20 seconds									
Frequency regulation	50/60 Hz ±0.01% (battery mode)									
Synchronized range	Default ±5%; (selectable ±0.10% ~ ±10%)									
Synchronized slew rate	Selectable (0.5 Hz/S ~ 2 Hz/S)									
Crest factor	3:1 - 3.6:1 usage load according to EN50171									
BATTERIES										
Battery type	Pb 10 years									
Number of batteries in series	40									
Nominal voltage	±240 VDC									
Batteries arrangement	Internal or external									
Number and capacity of internal batteries	3 x 40 12 V / 9 Ah									
External battery capacity	Selectable									
BATTERY CHARGER										
Discharge battery alarm	Settable (in order to guarantee 10 minutes as minimum pre-alarm time)									
Recharge current with usage load according to EN50171	6 A	8 A	9 A	15 A	15 A	9 A	15 A	15 A	22 A	26 A
Floating voltage	2.27 V/cell default (settable)									
Boost voltage	2.38 V/cell default (settable)									
Recharge time	<12 h for I'80% capacity recharge									
SYSTEM										
Efficiency - Normal operation	95.9		95.8	96.0	95.7	96.1	96.2	95.9	96.1	
Efficiency - Eco Mode operation	99.0	99.1	99.0	98.9		99.3	99.5		99.6	99.8
Efficiency - Battery operation	95.9						96.4		96.5	96.5
Display	LED + LCD Touch Screen									
Protection degree	IP20 standard, IP21/31 optional, dust filter optional									
Interface	Standard equipment: RS232, USB, dry contacts, Cold Start, EPO Optional: RS485, SNMP, parallel kit									
Operating mode	Online Mode: load always supplied by inverter Standby Off Mode: load powered only during mains failure or through external control EcoMode: load supplied on static bypass mode EOS Mode: 2 split loads, one load works in Online Mode and the second in Standby Off Mode									
Transfer load time	0 ms in Online Mode									
Compliance	EU Directive: 2014/35/EU Low voltage directive; e 2014/30/EU Electromagnetic compatibility directive • Safety: EN62040-1 • EMC: EN62040-2 C2 • Performance: EN62040-3 (Voltage Frequency Independent) VFI - SS - 111 • Centralised power supply systems: EN50171									
MECHANICAL DATA										
Dimensions W*D*H (mm)	440*840*1320									
Weight (Kg)	102	103	105	107	103	105	107	112	116	
Colour	RAL 7016									

Note: technical specifications and data could be changed without notification

MODEL	CPS060TT	CPS080TT	CPS100TT	CPS120TT
Usage load according to EN50171	50 kVA / 50 kW	65 kVA / 65 kW	85 kVA / 85 kW	100 kVA / 100 kW
MAIN INPUT				
Grid system	3F+N+PE			
Rated voltage / Frequency	380/400/415 Vac threephase + N, 50/60Hz			
Voltage range	320~480 VAC full load, 240~480 VAC at 50% load			
Maximum input current	120 A	155 A	195 A	230 A
Frequency range	40 - 72 Hz (rectifier operating range)			
Power factor	0.99			
Current THDi	≤3%			
OUTPUT				
Rated voltage / Frequency	380 V (Pn-2%), 400 V, 415 V; 50/60 Hz			
Load power factor	1			
Sinewave	Pure sine wave			
Voltage THDv	<1% (linear load), ≤1.5% (non-linear load)			
Voltage precision	±0.5%			
Inverter overload	120% long term operation 120-132%, 60 minutes *133-150%, 10 minutes 151-180%, 1 minute 181-240%, 0.5 seconds >240%, 0.2 seconds			
Bypass overload	132% long term operation 133-150%, 60 minutes 151-180%, 10 minutes 181-240%, 1 minute >240%, 20 seconds			
Frequency regulation	50/60 Hz ±0.01% (battery mode)			
Synchronized range	Default ±5%; (adjustable ±0.10% ~ ±10%)			
Synchronized slew rate	Adjustable (0.5 Hz/S ~ 2 Hz/S), default 1 Hz/S			
Crest factor	3:1			
BATTERIES				
Battery type	VRLA / AGM sealed lead acid batteries, open-vented batteries, NiCd batteries, lithium batteries			
Batteries arrangement isposizione batterie	External			
Number of batteries in series	Default 40 (20+20), selectable from 15 to 22 (if <20 a power derating must be applied)			
Nominal voltage	±240 VDC			
External battery capacity	Selectable			
BATTERY CHARGER				
Discharge battery alarm	Settable (in order to guarantee 10 minutes as minimum pre-alarm time)			
Recharge current	30 A			
Floating voltage	2.27V/cell default (settable)			
Boost voltage	2.40V/cell default (settable)			
Recharge time	<12 h for l'80% capacity recharge			
SYSTEM				
Efficiency - Normal operation	95.9	95.2	95.2	95.2
Efficiency - Eco Mode operation	99.1	98.7	99.1	99.2
Efficiency - Battery operation	96.6	94.1	95.4	94.1
Display isplay	LED + LCD Touch Screen			
Protection degree	IP20 *			
Interface	Standard equipment: RS232, USB, dry contacts, Cold Start, EPO Optional: RS485, SNMP, parallel kit			
Operating mode	Online Mode: load always supplied by inverter Standby Off Mode: load powered only during mains failure or through external control EcoMode: load supplied on static bypass mode EOS Mode: 2 split loads, one load works in Online Mode and the second in Standby Off Mode			
Transfer load time	0 ms in Online Mode			
Compliance ormative	EU Directive: 2014/35/EU Low voltage directive; e 2014/30/EU Electromagnetic compatibility directive • Safety: EN62040-1 • EMC: EN62040-2 C2 • Performance: EN62040-3 (Voltage Frequency Independent) VFI - SS - 111 • Centralised power supply systems: EN50171			
MECHANICAL DATA				
Dimensions W*D*H (mm)	440*840*1320	500*830*1600		
Weight (Kg)	130	173	181	199
Colour	RAL 7016			

Note: technical specifications and data could be changed without notification

* IP21/31 protection degree and Dust Filter are available on request

MODEL	CPS006KTM3	CPS010KTM3	CPS015KTM3	CPS010KTT3	CPS015KTT3	CPS020KTT3	CPS030KTT3	CPS040KTT3	CPS060KTT3	CPS080KTT3	CPS100KTT3	
Usage load according to EN50171 (kVA / kW)	6 / 5.4	10 / 9	15 / 13.5	10 / 9	15 / 13.5	20 / 18	30 / 27	40 / 36	60 / 54	80 / 72	100 / 90	
MAIN INPUT												
Grid system	3F+N+PE											
Rated voltage / Frequency	380/400/415 VAC , 50/60 Hz											
Voltage range	300~480 VAC											
Frequency range	45 - 65 Hz											
Power factor	0.99											
Current THDi	≤30%											
OUTPUT												
Load connection	1F+N+PE			3F+N+PE								
Rated voltage / Frequency	220/230/240 VAC, 50/60 Hz			380/400/415 VAC + N, 50/60 Hz								
Load power factor	0.9											
Sinewave	Pure sine wave											
Voltage THDv	≤1% (linear load), ≤3% (non-linear load)											
Voltage precision	±1% (0-100% linear load)											
Inverter overload	<120% long term operation, 120-130%, 60 minutes, 130-145%, 10 minutes, 145-170%, 1 minute											
Bypass overload	120% long term operation, 120-130%, 60 minutes, 130-145%, 10 minutes, 145-170%, 1 minute											
Frequency regulation	0.05% (battery mode)											
Synchronized range	2% (Selectable ± 1% ~ ± 6%)											
Synchronized slew rate	1 Hz/S											
Crest factor	3.6 : 1											
BATTERIES												
Battery type	Pb 10 years											
Number of batteries in series	32									33		
Nominal voltage	396 VDC											
Batteries arrangement	Internal and/or external						External					
Number and capacity of internal batteries	2 x 32 12V 9 Ah						Batterie esterne					
External battery capacity	Selectable											
BATTERY CHARGER												
Discharge battery alarm	Settable (in order to guarantee 10 minutes as minimum pre-alarm time)											
Recharge current	12 A	13 A	14 A	13 A	14 A	24 A	28 A	52 A	55 A	60 A	67 A	
Floating voltage	2.26V/cell default (settable)											
Boost voltage	2.40V/cell default (settable)											
Recharge time	<12 h for l'80% capacity recharge											
SYSTEM												
Efficiency - Normal operation	91.5%			88%	90%	92%			92.7%			
Efficiency - Eco Mode operation	98%											
Efficiency - Battery operation	95%			94%			95%					
Display	LED + LCD											
Protection degree	IP20											
Interface	2 slots for communication interface / 2 RS232 serial ports											
Operating mode	Online Mode: load always supplied by inverter Standby Off Mode: load powered only during mains failure or through external control Eco Mode: load supplied on static bypass mode											
Transfer load time	0 ms in Online Mode											
Compliance	EU Directive: 2014/35/EU Low voltage directive; e 2014/30/EU Electromagnetic compatibility directive <ul style="list-style-type: none"> • Safety: EN62040-1 • EMC: EN62040-2 C2 • Performance: EN62040-3 (Voltage Frequency Independent) VFI - SS - 111 • Centralised power supply systems: EN50171 											
MECHANICAL DATA												
Dimensions W*D*H (mm) imensioni L*P*A (mm)	555 x 740 x 1400							800 x 740 x1400		800 x 800 x 1900		
Weight (Kg)	200	220	230	241	256	315	335	460	540	600	610	
Colour	RAL 7016											

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Note 2: power over 100 kVA available on request