

| 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 | 384 VDC | | | | | | | | | 396 VDC | | |
| Batteries arrangement | Internal and/or external | | | | | | External | | | | | |
| Number and capacity of internal batteries | 2 x 32 12V 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 | 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 • 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 | | | | | | | | | | | |

Note: technical specifications and data could be changed without notification

Note 2: power over 100 kVA available on request