

8.3 Sunny Central 720CP XT

| DC Input | |
|-----------------------------------------------|-------------------------------------|
| Maximum DC Power | 808 kW |
| Minimum input voltage / maximum input voltage | 480 V to 1000 V |
| Minimum MPP voltage | 480 V |
| MPP voltage range at +25 °C | 577 V to 850 V |
| MPP voltage range at +50 °C | 525 V to 850 V |
| MPP voltage range at +25 °C and 60 Hz | 577 V to 850 V |
| MPP voltage range at +50 °C and 60 Hz | 525 V to 850 V |
| Rated input voltage | 577 V |
| Maximum input current | 1400 A |
| Maximum short-circuit current | 2500 A |
| Maximum reverse current | 2300 A |
| Number of independent MPP inputs | 1 |
| Number of DC inputs | 9 |
| AC Output | |
| Rated power at +25 °C | 792 kVA |
| Rated power at +50 °C | 720 kVA |
| Nominal AC voltage | 324 V |
| Nominal AC voltage range | 292 V to 372 V |
| AC power frequency | 50 Hz / 60 Hz |
| AC power frequency range | 47 Hz to 63 Hz |
| Rated frequency | 50 Hz |
| Rated grid voltage | 324 V |
| Maximum total harmonic distortion | 0.03 |
| Maximum AC current | 1411 A |
| Maximum residual current at the AC output | 3500 A |
| Maximum overcurrent protection at output | 50000 A |
| Power factor at rated power | 1 |
| Displacement power factor $\cos \varphi$ | 0.9 overexcited to 0.9 underexcited |
| Feed-in phases | 3 |

| AC Output | |
|----------------------------------------------------------------------------------|-----------------------------------|
| Connection phases | 3 |
| Inrush current of the internal power supply | 48 A (100 ms) |
| Efficiency | |
| Maximum efficiency | 98.6% |
| European weighted efficiency | 98.4% |
| CEC weighted efficiency | 98.5% |
| Protective Devices | |
| DC overvoltage protection | Type I |
| Lightning protection as per IEC 62305-1 | Lightning protection level III |
| Surge arrester for auxiliary power supply | Yes |
| Protection class in accordance with IEC 62109-01 | I |
| Overvoltage category in accordance with IEC 60664-1 | III |
| General Data | |
| Width x height x depth | 2562 mm x 2272 mm x 956 mm |
| Weight | 1900 kg |
| Operating temperature range | -25 °C to +62 °C |
| Operating temperature range for low-temperature option | -40 °C to +62 °C |
| Noise emission at a distance of 10 m | 64 db(A) |
| Self-consumption in operation | < 1950 W |
| Standby consumption | < 100 W |
| External supply voltage | 230 V/400 V (3/N/PE), 50 Hz/60 Hz |
| Degree of protection of electronics | IP54 |
| Degree of protection of the connection area | IP43 |
| Maximum permissible value for relative humidity (non-condensing) | 15% to 95% |
| Maximum operating altitude above mean sea level | 2000 m |
| Maximum operating altitude above MSL for option "Installation at high altitudes" | 4000 m |
| Fresh air consumption | 3000 m ³ /h |