

CHILICON POWER CP-250E



Made in USA

Reliability by Design

Enhanced Monitoring

Modular Trunk Cabling

AC Coupling with Freq-Watt and Volt-Watt Modes

CP-250E-60-72-208/240-MC4 Microinverter Specifications

INPUT DATA (DC)

Recommended input power (STC)	190 - 355 W
Maximum DC input voltage	60 V
MPPT voltage range	22 – 38.5 V
Operating range	18 – 38.5 V
Min./Max. start voltage	22 – 47 V
Max. DC input short circuit current	21 A
Max. DC input current	12 A
Ground fault protection	Transformer isolated 2000 Vrms input/output/chassis

OUTPUT DATA (AC)

	@ 208 V	@ 240 V
Max. continuous output power	277 W	289 W
Max. continuous output current	1.33 A	1.20 A
Nominal output voltage / range	208 / 183 – 229 V	240 / 211 – 264 V
Extended output voltage range	133 / 150 / 166 – 250 V	153 / 173 / 192 – 288 V
Nominal frequency* / range	60.0 / 59.3 – 60.5 Hz	60.0 / 59.3 – 60.5 Hz
Extended frequency range	54.22 – 66.75 Hz	54.22 – 66.75 Hz
Power factor	-0.8 to 0.8 programmable	-0.8 to 0.8 programmable
Maximum units per branch circuit	18 (30A 10 AWG) / 12 (20A 12AWG)	20 (30A 10AWG) / 13 (20A 12AWG)
Maximum output fault current & duration	1.6 A peak for > 10% of any cycle	1.6 A peak for > 10% of any cycle
Maximum output overcurrent protection	6.3 A	6.3 A
*50Hz operation; 50.0 / 49.5 – 50.5 Hz	45.2 – 55.7 Hz extended range	Bond Trunk Red to White for 1 ϕ system

EFFICIENCY

CEC weighted efficiency	96 %
Peak inverter efficiency	96.6 %
Static MPPT efficiency (EN 50530)	99.5 % - 99.8 %
Night time power consumption	40 mW @ 208V, 80 mW @ 240 V

MECHANICAL DATA

Ambient temperature range	-40°C to +65°C
Dimension (W x H x D) including connectors	12" x 8" x 1.8"
Weight	1.55 kg (3.4 lbs)
Enclosure rating	NEMA 6

FEATURES

Power Control	Self-Supply / Zero-Net-Export; Freq/Volt-Watt Control with 60-cell modules
Monitoring	Power line (130.2 kHz carrier); Free monitoring via gateway or online software
Compliance	UL1741SA Rule-21, IEEE std 1547, IEEE std C62.41.2, CSA C22.2 NO. 107.1 & CISPR Class B HECO Rule14H (Advanced Inverter), HECO Rule 22 (Self-Supply), NEC 2014 and NEC 2017 Rapid Shutdown Compliant
Compatibility	60/72 cell PV modules with compatible input voltage range specifications above