

# CHILICON POWER CP-250



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**Maximum Energy Production**

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**Reliability by Design**

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**Enhanced Monitoring**

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**Simplified Installation**

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**Safety**

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## CP-250-60-208/240-MC4 Microinverter Specifications

### INPUT DATA (DC)

|                                     |   |
|-------------------------------------|---|
| Recommended input power (STC)       | 190 - 300 W   |
| Maximum DC input voltage            | 44 V  |
| MPPT voltage range                  | 22 – 38.5 V   |
| Operating range                     | 18 – 38.5 V   |
| Min./Max. start voltage             | 22 – 40 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                           |
|---|-----------------------------------|-----------------------------------|
| Peak sustainable output power           | 250 W                             | 250 W                             |
| Rated output power                      | 220 W                             | 220 W                             |
| Max. continuous output current          | 1.20 A (250 W @ 208 V)            | 1.04 A (250 W @ 240 V)            |
| 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                            | > 0.95                            | > 0.95                            |
| Maximum units per 20 A branch circuit   | 13                                | 15                                |
| 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                             |

### EFFICIENCY

|                                   |                             |
|-----------------------------------|-----------------------------|
| CEC weighted efficiency           | 96.09 %                     |
| 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 4X           |

### FEATURES

|               |  |
|---------------|--|
| Communication | Power line (130.2 kHz carrier)   |
| Monitoring    | Free monitoring via gateway or online software                                   |
| Compliance    | UL1741, IEEE std 1547, IEEE std C62.41.2, CSA C22.2 NO. 107.1 & CISPR 22 Class B |
| Compatibility | 60-cell PV modules compliant with input voltage operating range specification    |