CHILICON POWER CP-760-V2

Dual Panel Microinverter



CP-760-V2™ Series Microinverters

The Chilicon CP-760-V2 allows installers to maximize PV system production, while minimizing installation and operational costs. Microinverter-based architectures offer the benefit of increased flexibility in module deployment, while also providing per module visibility to simplify system O&M. With its all-AC approach, integrated grounding, modular bus cabling, and ability to support up to 14 modules on a 30A branch circuit, the CP-760-V2 simplifies both design and installation. Both freq-Watt and volt-Watt modes allow AC control in off-grid battery or generator systems. Coupled with the CP-110 gateway and cloud-based monitoring software, the CP-760-V2 can form the energy management backbone of both residential and commercial PV systems.

MADE IN USA

International Organization for Standardization ISO 9001

C ETL LISTED US Intertek

Performance

- Supports up to 900W DC (2x450W)
- Maximizes energy production over life of system
- Minimizes losses due to shading and debris
- Eliminates single point of failure for system

Simplicity

- All AC design – No string calculations needed
- No GEC needed for microinverters
- Easy installation with standardized trunk cables

Versatility

- Compatible with most 60, 72 cell panels
- Single SKU 240V or 208V
- Allows for variable module placement
- Robust PLC communication protocol (>500 ft range)
- Self-supply mode (zero-export)
- Supports branch circuits up to 30A

Reliability, Safety, & Compliance

- NEMA 6 rated construction
- 25-year warranty
- AC branch circuits will not support arc faults
- Quick disconnect circuit to mitigate grid instabilities
- NEC 690.12(B)(2) rapid shutdown compliant
- CA Rule 21 (UL 1741-SB) compliant

CP-760-V2 Microinverter Specifications

INPUT DATA (DC)	
Recommended input power (STC)	(300 - 450 W) x 2
Maximum DC input voltage	120 V
MPPT voltage tracking range	63 – 85 V
Operating range	48 – 102 V[1]
Min./Max. start voltage	55 – 102 V[1]
Max. DC input short circuit current	16 A
Max. DC input current	13.5 A
Ground fault protection	Transformer isolated 2000 Vrms input/output/chassis

OUTPUT DATA (AC)	@ 240 V	@ 208 V
Max. continuous output power	760 W	760 W
Max. continuous output current	3.2A	3.6A
Nominal output voltage / range	240 / 211 – 264 V	208 / 183 – 229 V
Extended output voltage range	153 / 173 / 192 – 288 V	133 / 150 / 166 – 250 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[2]	54.22 – 66.75 Hz[2]
Power factor	-0.6 to 0.6 programmable	-0.6 to 0.6 programmable
Maximum units per 30 A branch circuit	7 (14 modules)	6 (12 modules)
Maximum output overcurrent protection	15A Fuse; 18A peak for 30 uSec	15 A Fuse; 18A peak for 30 uSec

EFFICIENCY		
CEC weighted efficiency	97 %	96.8 %
Peak inverter efficiency	97.3%	97.1 %
Static MPPT efficiency (EN 50530)	99.5 % - 99.8 %	
Night time power consumption	200 mW; Standby Reactive Current < 200mA	

MECHANICAL DATA		
Ambient temperature range	-40° C to +65° C	
Dimension (W x H x D) (Chassis only)	12.5”x9.1”x1.8” Staubli MC4 DC leads: 8.75”	Integrated branch cable: 27”
Weight	2.3 kg (5 lbs)	
Enclosure rating	NEMA 6	

FEATURES	
Communication	Mesh Networked Power Line (130.2 kHz carrier)
Monitoring	Monitoring via CP-100, CP-110 gateway and Online Cloud
Certifications	UL1741, IEEE std 1547-2018/.1-2020, IEEE std C62.41.2, CSA C22.2 NO. 107.1 FCC15 Class B; Rule 21 / UL1741SB; Complies with NEC 690.12(B)(2) Rapid Shutdown; Product Warranty 25 Years
Compatibility (Single SKU)	2 x Series 60/72 Cell Mono or Poly PV modules

[1]Maximum DC exposed voltage equals single module Voc when in shutdown
[2]Supports 50Hz operating in extended mode range (45.2-55.7 Hz)

Chilicon Power
A GENERAC COMPANY

To learn more about Chilicon Power microinverters, call (310) 800-1396
or visit chiliconpower.com