

10 CP-720 microinverters current limited to 2.4A
Two modules connect to each microinverter

MODULES ARE WIRED IN PARALLEL NOT IN SERIES

PV BREAKER IS TO BE LOCATED AT THE OPPOSITE END OF THE BUS BAR FROM THE MAIN BREAKER.

WIRE TAG #	CONDUIT	WIRE QTY (CARRY CURRENT)	WIRE GAUGE (AWG)	WIRE TYPE	WIRE LENGTH (FEET)	TEMP RATING:	WIRE LOCATION	ADJUSTED WIRE TEMP	WIRE AMP	TEMP CORRECTION PER TABLE 310.15(B)(2)(a):	CONDUIT FILL PER TABLE 310.15(B)(3)(a):	WIRE OCP:	TERMINAL 75oC RATING	INVERTER QTY:	AC OUTPUT CURRENT	NEC 690.8(A)(3)	BRANCH AMPS	GROUND SIZE	GROUND TYPE	OCPD CHECK
1	NONE	2	10	TRUNK CABLE	15	90°C	ROOF	63	30	X 0.65	X 1	= 26	35	10	X 2.4	X 1	= 24	#6	SBC	NONE
2	3/4" EMT	2	10	THWN-2	50	90°C	ROOF	63	40	X 0.65	X 1	= 26	35	10	X 2.4	X 1	= 24	#8	THWN-2	NONE
3	3/4" EMT	2	10	THWN-2	5	90°C	WALL	44	40	X 0.87	X 1	= 34.8	35	10	X 2.4	X 1	= 24	#8	THWN-2	30A 2P

- ELECTRICAL EQUIPMENT CALLOUTS
- A** JUNCTION BOX
600 V, NEMA 3R W/
EUROSTRIP OR POLARIS IT CONNECTORS
 - B** AC DISCONNECT
240 VAC, 30A NEMA 3R, UL LISTED

	LOW MEAN TEMP PER ASHRAE HANDBOOK	MFR VOLTAGE TEMP COEFFICIENT (oC)	VOLTAGE LOW TEMP CORR. (oC)	HIGH AMBIENT TEMP (oC)	CONDUIT HEIGHT (in)	ROOF TOP ADDED TEMP PER Table 310.15(B)(3)(a) (oC)	ADJUSTED TEMP
ROOF	0	-0.28	1.07	44	0.5-3.5	19	63
WALL	0			44	N/A	0	44
ATTIC	0			56	N/A	0	56

MICROINVERTERS MEET RAPID SHUTDOWN REQUIREMENTS PER NEC 2017 SECTION 690.12

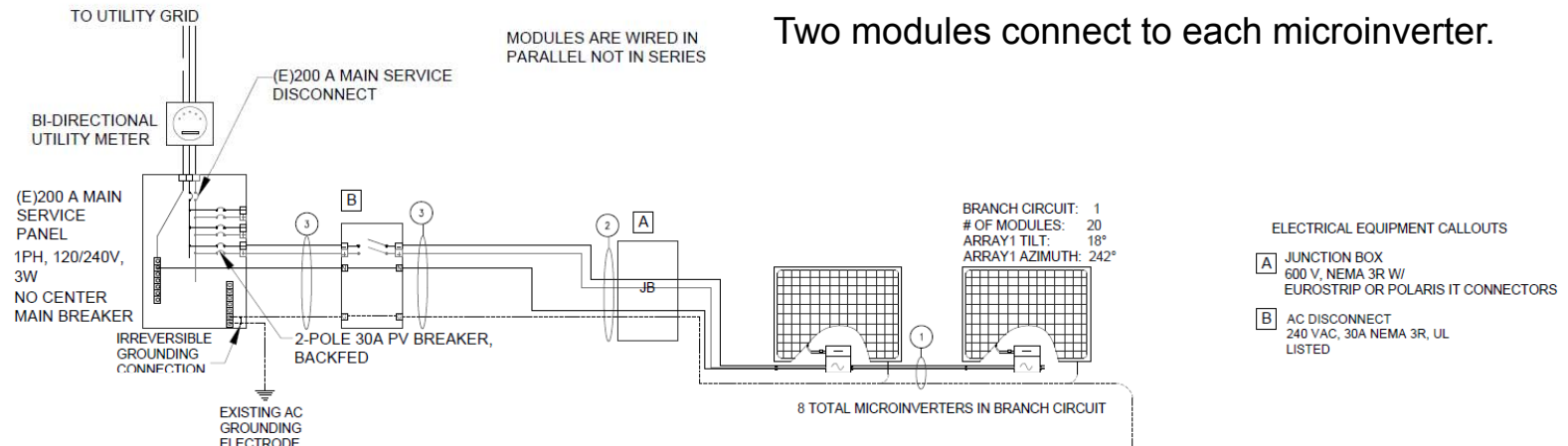
ELECTRICAL SINGLE LINE DIAGRAM

Note: While the CP-720 includes an integrated ground, Chilicon Power recommends installing an equipment ground line to meet the requirements of most AHJs.

Typical Single Line Diagram
One branch circuit of 20 x ≤355W modules



8 CP-720 microinverters at maximum current
Two modules connect to each microinverter.



PV BREAKER IS TO BE LOCATED AT THE OPPOSITE END OF THE BUS BAR FROM THE MAIN BREAKER.

WIRE TAG #	CONDUIT	WIRE QTY (CARRY CURRENT)	WIRE GAUGE (AWG)	WIRE TYPE	WIRE LENGTH (FEET)	TEMP RATING:	WIRE LOCATION	ADJUSTED WIRE TEMP	WIRE AMP	TEMP CORRECTION PER TABLE 310.15(B)(2)(a):	CONDUIT FILL PER TABLE 310.15(B)(3)(a):	WIRE OCP:	TERMINAL 75oC RATING	INVERTER QTY:	AC OUTPUT CURRENT	NEC 690.8(A)3	BRANCH AMPS	GROUND SIZE	GROUND TYPE	OC PD CHECK
1	NONE	2	10	TRUNK CABLE	15	90°C	ROOF	63	30	X 0.65	X 1 = 26		35	8	X 3.0	X 1 = 24	#6	SBC	NONE	
2	3/4" EMT	2	10	THWN-2	50	90°C	ROOF	63	40	X 0.65	X 1 = 26		35	8	X 3.0	X 1 = 24	#8	THWN-2	NONE	
3	3/4" EMT	2	10	THWN-2	5	90°C	WALL	44	40	X 0.87	X 1 = 34.8		35	8	X 3.0	X 1 = 24	#8	THWN-2	30A 2P	

	LOW MEAN TEMP PER ASHRAE HANDBOOK	MFR VOLTAGE TEMP COEFFICIENT (oC)	VOLTAGE LOW TEMP. CORR. (oC)	HIGH AMBIENT TEMP (oC)	CONDUIT HEIGHT (in)	ROOF TOP ADDED TEMP PER TABLE 310.15(B)(3)@ (oC)	ADJUSTED TEMP
ROOF	0	-0.28	1.07	44	0.5-3.5	19	63
WALL	0			44	N/A	0	44
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MICROINVERTERS MEET RAPID SHUTDOWN REQUIREMENTS PER NEC 2017 SECTION 690.12

ELECTRICAL SINGLE LINE DIAGRAM

Note: While the CP-720 includes an integrated ground, Chilicon Power recommends installing an equipment ground line to meet the requirements of most AHJs.

Typical Single Line Diagram
One branch circuit of 16 x >355W modules