

ROOF OR GROUND MOUNT



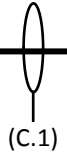
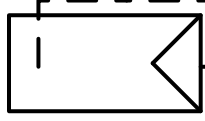
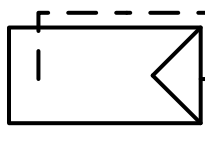
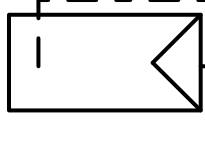
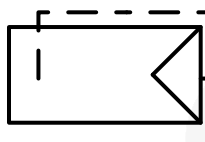
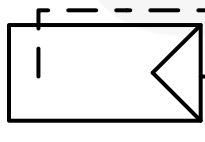
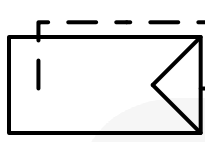
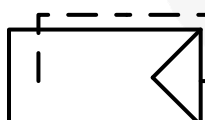
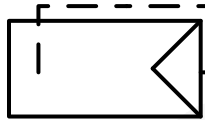
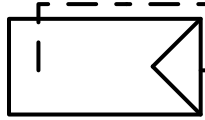
1.



2.



(A)

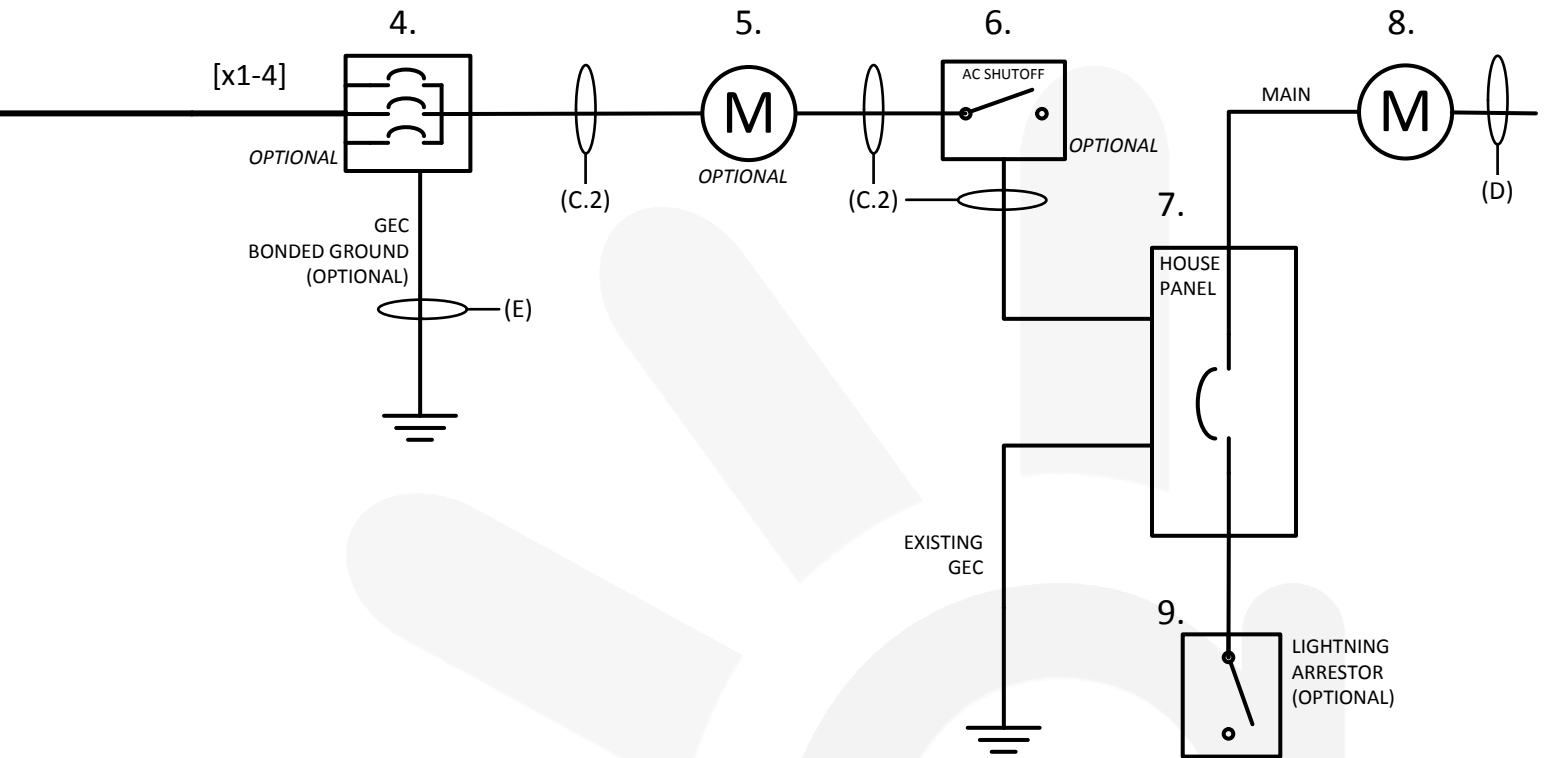


(C.1)

(B)

3.





NEC 2008 LABELING REQUIREMENTS:

OPERATING CURRENT (I_{mp} @ STC)	37.1 dc
OPERATING VOLTAGE (V_{mp} @ STC)	29.8 Vdc
MAX SYSTEM VOLTAGE (V_{oc} @ Tmin)	29.8 Vdc
MAX SYSTEM CURRENT (I_{sc} @ STC)	8.39 Adc

-UTILITY INTERACTIVE INVERTER (690.5)

WARNING: ELECTRIC SHOCK HAZARD IF A GROUND FAULT IS INDICATED. NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED.

-AC DISCONNECT AND INVERTER DISCONNECT (690.54)

WARNING: DISCONNECT IS ENERGIZED FROM TWO SOURCES -- SOLAR SYSTEM AND UTILITY GRID.

AC OPERATING VOLTAGE	240 Vac
MAXIMUM AC CURRENT PER MODULE	1.04 Aac

-AC CIRCUIT BREAKER (690.64)

WARNING: CIRCUIT BREAKER IS ENERGIZED FROM TWO SOURCES -- SOLAR SYSTEM AND UTILITY GRID

EQUIPMENT SCHEDULE:

1. SOLAR PV ARRAY, 250w-260w MODULES (max 17 per string)
2. ENPHASE M215 MICRO-INVERTER
3. J-BOX - JUNCTION FROM ENPHASE TRUNK CABLE TO 12/3 UF EXTERIOR CABLE
4. 240V, 100A AC SQUARE-D SUB PANEL W/ 3 20A BREAKERS
5. 240V, 100A PV PRODUCTION METER (ZEROED OUT)
6. 240V, 60A AC SERVICE & UTILITY DISCONNECT UNFUSED, 'READILY ACCESSIBLE'
7. EXISTING HOME 200A CIRCUIT BREAKER, SERVICE MAIN
8. EXISTING UTILITY kWh METER
9. MIDNIGHT SOLAR MNSPD-300 LIGHTNING ARRESTOR

WIRE SCHEDULE:

(A) PV SOURCE CIRCUIT	Module Integrated
(B) INVERTER OUTPUT CIRCUIT	12/3 (Enphase trunk cable)
(C.1) INVERTER OUTPUT CIRCUIT	12/3 UF
(C.2) INVERTER OUTPUT CIRCUIT	3x#12 THWN-2 Cu, #12 GND, IN PVC
(D) EXISTING SERVICE	3x#r/0 Al

MODULE:

- 250w – 260w

Pstc	250-260 W
Voc	37.1 V
Vmp	29.8 V
Isc	8.39 A
Imp	8.91 A
P TEMP	0.43%/°C
Voc TEMP	0.356%/°C

INVERTER:

- (17/trunk max) ENPHASE M215

MAX POWER	215 w
AC VOLTAGE	240 Vac
AC CURRENT	.9 A
MAX DC VOLTAGE	31 Vdc
MPPT RANGE	22-36 Vdc
MAX DC CURRENT	1 A