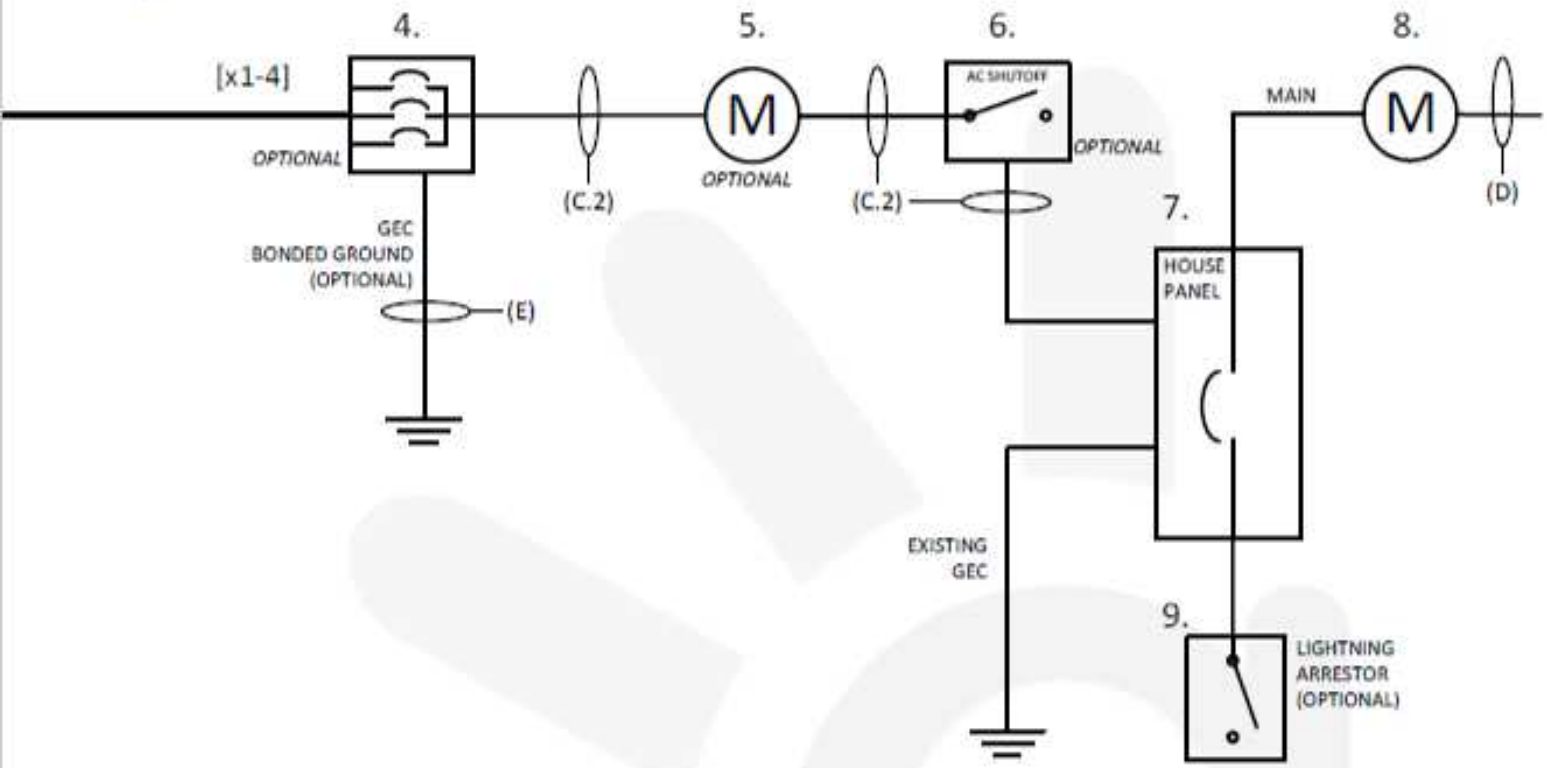
anapode solar

HOUSE EXTERIOR



NEC 2014 LABELING REQUIREMENTS:

OPERATING CURRENT (Imp @STC)48 Vdc
OPERATING VOLTAGE(Vmp @ STC)48 Vdc
MAX SYSTEM VOLTAGE (Voc @ Tmin)60 Vdc
MAX SYSTEM CURRENT (Isc @ STC)10 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 (690.54)
WARNING: DISCONNECT IS ENERGIZED FROM TWO SOURCES - SOLAR SYSTEM AND UTILITY GRID.
AC OPERATING VOLTAGE240 Vac
MAXIMUM AC CURRENT PER MODULE1.04 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, 320w MODULES (max 16 per string)
2. ENPHASE M215-72 MICRO-INVERTER
3. JBOX - JUNCTION FROM ENPHASE TRUNK CABLE to 12awg WIRE
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, '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 CIRCUITModule Integrated
(B) INVERTER OUTPUT CIRCUIT12/3 (Enphase trunk cable)
(C.1) INVERTER OUTPUT CIRCUIT12/3 UF
(C.2) INVERTER OUTPUT CIRCUIT3x#12 THWN-2Cu, #12 GND, in PVC
(D) EXISTING SERVICE3x#r/0 Al

MODULE:

320w
Pstc320w
Voc45.3
Vmp36.8
Isc9.26A
Imp8.69A
P TEMP 0.43%/C
Voc TEMP 0.356%/C

INVERTER:

-(16/trunk max) ENPHASE M250-72
MAX POWER250 w
AC VOLTAGE240Vac
AC Current1.04 A
MAX DC VOLTAGE48 Vdc
MPPT RANGE27-39 Vdc
MAX DC CURRENT1.2 A