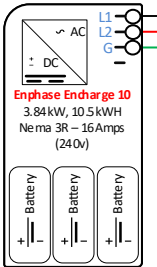


Roof Mounted (50 Modules) – Metal Roof

- LG-355->LG355N1C-N5** (240v)
1-Solar Array - 1 String of 11 modules
Enphase IQ7s->IQ7PLUS-72-2US
Microinverters - located under each panel
- LG-355->LG355N1C-N5**
3-Solar Array - 3 String of 10 modules
Enphase IQ7s->IQ7PLUS-72-2US
Microinverters - located under each panel
- LG-355->LG355N1C-N5** (240v)
1-Solar Array - 1 String of 9 modules
Enphase IQ7s->IQ7PLUS-72-2US
Microinverters - located under each panel

*Battery will be left in Back-up mode by Tech



Combiner Box
80A Rated (240v)
(ATTABOX Model X-1C-AM1-240-3)
(Exterior Mounted)

Relay Junction Box
PV Shedding Relays
(12 x 12 NE MA3)
(Exterior Mounted)

Generation Panel
125A Rated (240v)
(Exterior Mounted)

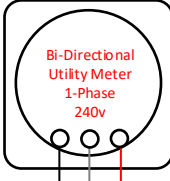
AC Disconnect 100A
Lockable and Non-Fusible (240v)
(Exterior Mounted)

ESS Hold Down
KIT BRHDK1.25 is
Required Per
730.15

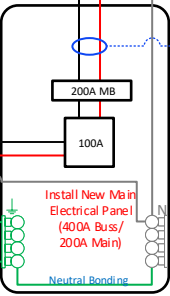
Empower
Enphase Smart Switch
200A Nema 3R
(Exterior Mounted)

AC Disconnect 100A
Lockable and Non-Fusible (240v)
(Rack Mounted)

Power Pole Utility Meter



Build Rack at Pole



Install New Main Electrical Panel (400A Buss/ 200A Main)

Grounding Electrode

Consumption CT's

Visible, lockable, and Labeled - **AC DISCONNECT**
LOCATED in close Proximity of meter

Trench Required -30'-

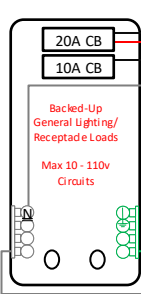
- Critical Loads Panel Schedule**
- 15A - General Lights/Rec
 - 15A - General Lights/Rec
 - 15A - General Lights/Rec
 - 15A - General Lights/Rec
 - 15A - General Lights/Rec
 - 15A - General Lights/Rec
 - 15A - General Lights/Rec
 - 15A - Kitchen GFI
 - 15A - Bath GFI
 - 20A - Refrigerator

Christopher Phillips
50 X 315 = 15.75kWDC
50 X 290 = 14.50kWAC
 (3) Branch circuit of 10 modules
 (1) Branch circuit of 11 modules
 (1) Branch circuit of 9 modules
 Inverter output current: **1.21A**
 Max system output current: **60.50A**

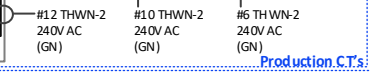
PV Module: (50) LR6-60HPB-315M
 Inverter: (50) Enphase IQ7PLUS-72-2-US(240v) (290va)

Battery: (1) Enphase En charge 10
 3.84KW, 10.5KWH Nema 3R (16A)(240v)

Critical Loads Panel
125A Rated (240v)



Circuits will be removed out of existing panel and extended to the **Critical Loads Panel** in the vicinity of the existing panel



(GN) General Conduit Note:
Conduit to be UL Listed for wet locations and UV protected (Ex. – EMT, Sch 80 PVC or RMC)

* FMC May be used in indoor applications where permitted by NEC Art. 348

MARCJONES CONSTRUCTION
residential · commercial · solar

SUNPRO SOLAR HOME SPECIALISTS

ADDRESS: 395 Private Rd. 6620 Devine, TX. 78016		
DESC.: 15.75 kW solar panel system		
UTILITY: Medina Electric Co-Op		
JURISDICTION: Medina County		
DATE: 04.21.21	REV: 1	SHEET: 1 OF 1
Layout Designer:	One-Line Designer: B. Royce	