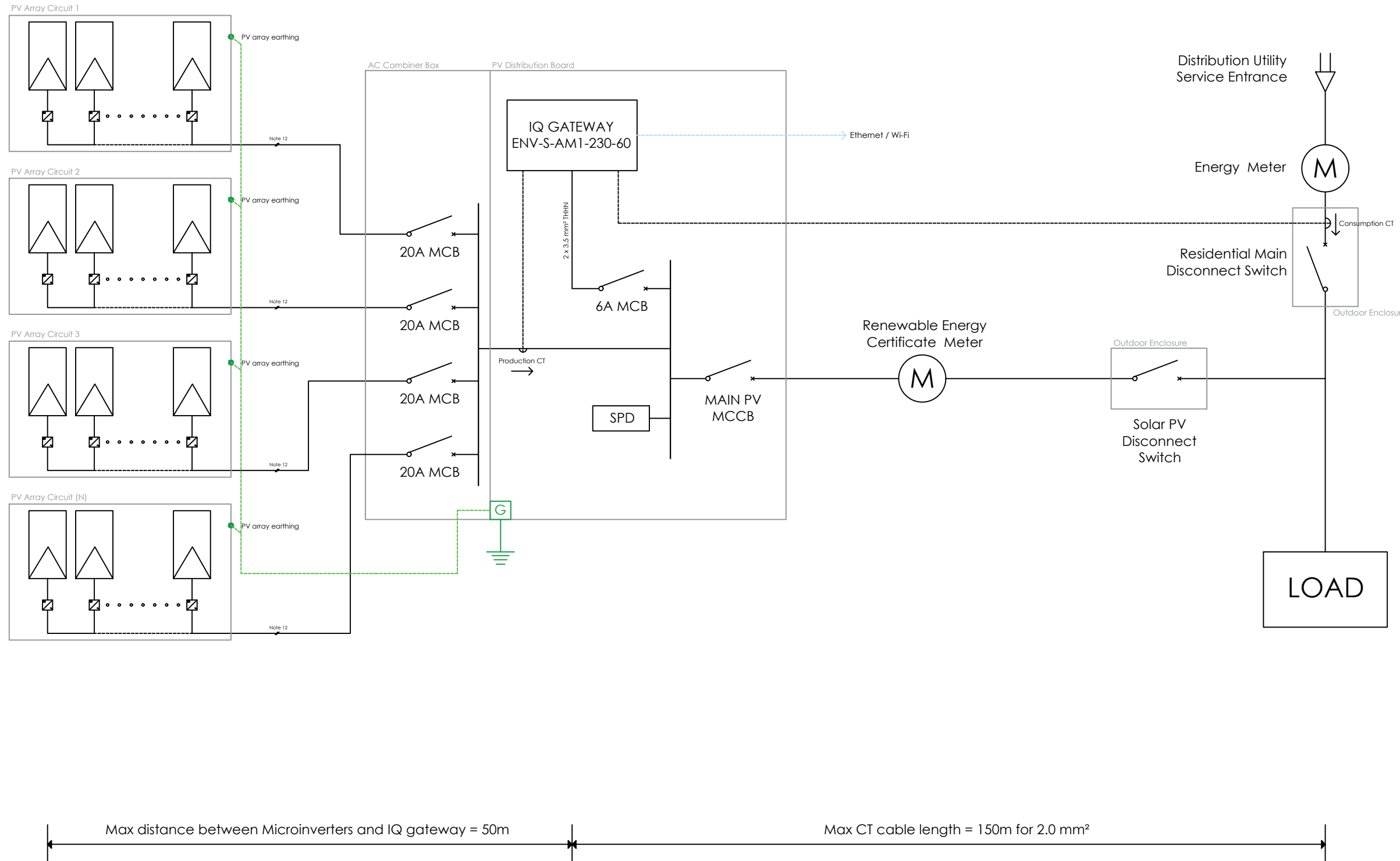


Max number of IQ Microinverters per 20A circuit

- IQ7Plus-72-2-US = 12
- IQ7A-72-2-US = 10
- IQ8P-72-2-US = 7



- LEGENDS:
1. **IMPORTANT:** This is an example drawing, actual system design will be site dependent.
 2. **IMPORTANT:** Prior to installing any solar equipment, check the Line-to-Line voltage or Line-to-Neutral voltage ($\pm 230V$) at the point of connection. The voltage for the 230V rated microinverters must be within acceptable range as confirmed by the Philippine Electrical Code.
 3. **IMPORTANT:** Observed maximum number of microinverters to be connected for each phases.
 4. For Zero-Export application, maximum of 250 units of microinverters to be connected and controlled to a single IQ gateway.
 5. AC cabling to be determined using the latest edition of AS3008. Refer also to "Enphase Voltage Rise Calculator".
 6. Enphase IQ gateway powerline communication unit vary on installation conditions. At least one IQ gateway must be installed on site and connected to Enlighten.
 7. PV Frame/Racking can be earthed to the Weatherproof junction box.
 8. Communication between all Enphase hardware are done through powerline communication.
 9. PV Systems without Lighting Protection (LPS) are recommended to have Surge Protection Devices (SPD) Type/Class II installed. If, LPS is installed Type/Class I is recommended. SPD's are recommended on all PV Sub-board with feeder line greater than 10m in cable length.
 10. Maximum Distance between Microinverters and IQ gateway is 50m.
 11. Maximum CT cable length is 150m for 2.0mm² cable.
 12. Q-12-10-240 for portrait PV orientation or Q-12-20-200 for landscape PV orientation is required to daisy chain the microinverters.
 13. IQ8P microinverters cannot be connected at the same IQ gateway as IQ7A and IQ7+ microinverters. Installing separate IQ gateway is required.

DRAWING TITLE:

Single Line Diagram for 230V Single phase

DRAWN BY:	DATE:	SHEET:	REV:
Arnel M. Miranda Jr.	06/20/2023	1 of 1	Revision 2