

Selecting the suitable grid profiles for commissioning IQ Microinverters

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Selecting the suitable grid profiles

Installers can select pre-determined grid parameters that are compliant with each country's solar industry standards in the form of **Grid Profiles (GP)**. These grid profiles are uploaded to each microinverter during the commissioning process so that it functions according to grid compliance requirements, such as the Philippine Distribution Code of 2017, the Philippine Electrical Code of 2017, and the Net-Metering Program of the Energy Regulatory Commission.

List of grid profiles applicable for the Philippines

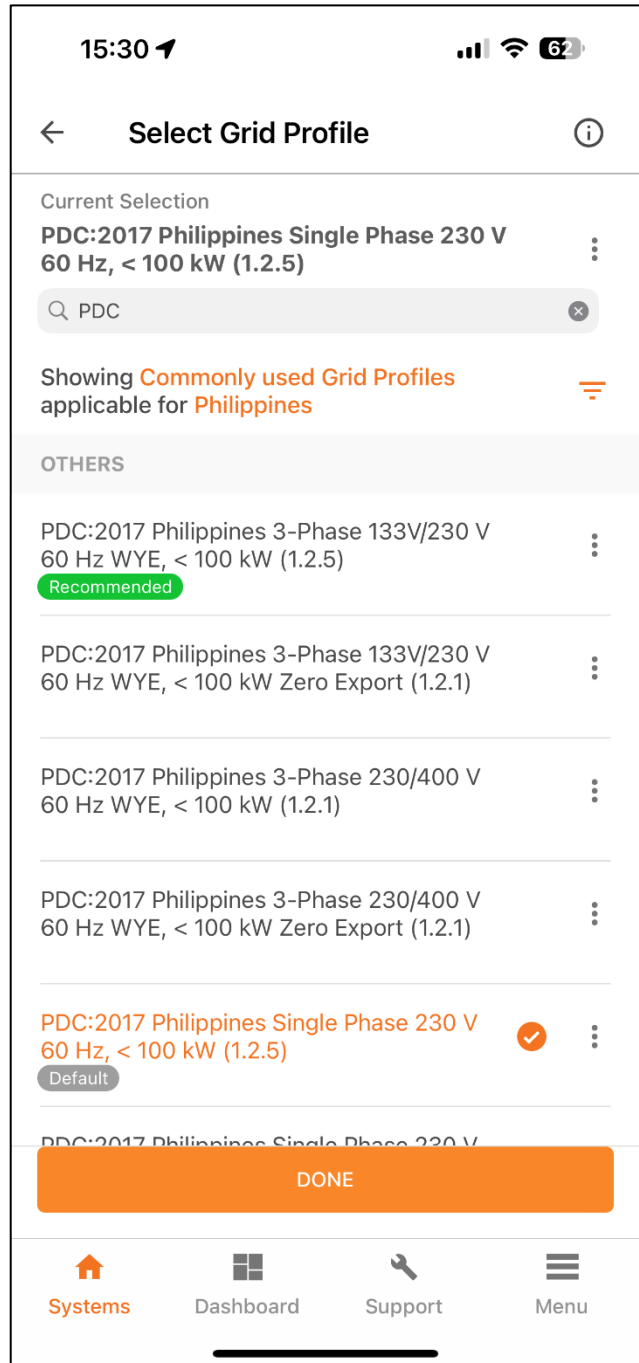
Below is the list of grid profiles applicable for each IQ Gateway for the region:

Gateway	Type of grid	Grid profile name
ENV-S-AM1-230-60	230 V, single-phase, 60 Hz Voltage tolerance $\pm 10\%$	PDC:2017 Philippines single-phase 230 V 60 Hz, <100 kW ^{ver 1.2.5}
	230 V, single-phase, 60 Hz Voltage tolerance $\pm 10\%$ For zero export	PDC:2017 Philippines single-phase 230 V 60 Hz, <100 kW with zero export ^{ver 1.2.1}
ENV-IQ-AM3-3P	133 V (L-N), 230V (L-L), 3P Voltage tolerance $\pm 10\%$	PDC:2017 Philippines three-phase 133 V/230 V 60 Hz WYE, <100 kW ^{ver 1.2.5}
	133 V (L-N), 230 V (L-L), 3P Voltage tolerance $\pm 10\%$ For zero export	PDC:2017 Philippines three-phase 133 V/230 V 60 Hz WYE, <100 kW zero export ^{1.2.1}
ENV-S-AM1-230-60	230 V (L-N), 400 V (L-L), 3P Voltage tolerance $\pm 10\%$	PDC:2017 Philippines three-phase 230/400 V 60 Hz WYE, <100 kW ^{ver 1.2.1}
	230 V (L-N), 400 V (L-L), 3P Voltage tolerance $\pm 10\%$ For zero export	PDC:2017 Philippines three-phase 230/400 V 60 Hz WYE, <100 kW zero export ^{ver 1.2.1}

NOTE: The installer must install both production and Consumption Current Transformers (CTs) and then enable both production and consumption meters when selecting grid profiles with zero export.

Selecting the right grid profile during commissioning

- Ensure that both Gateway software and grid profiles are updated each time commissioning is done. Refer to our [Commissioning tech brief](#) to follow the steps required for commissioning.
- The required grid profile can be selected under Step 2 of the commissioning process, after scanning the gateway serial number.
- Carefully select the correct grid profile, then select **Done** to proceed to the next step.
- It is strongly recommended to select a **non-zero export grid profile** first. Selecting a non-zero export grid profile allows the microinverters to produce power without the consumption meter reading until the commissioning is completed.
- The grid profile can be changed once the consumption meter is enabled. To do so, return to Step 2 in the commissioning process and select the gateway serial number to access the "Change Grid Profile" option. Select the grid profile with zero export, and then proceed to Step 4 to provision the microinverters once again.
- Follow the remaining steps to complete the commissioning process. Propagation of the selected grid profile to the microinverters takes about 10 minutes.



Revision history

Revision	Date	Description
WHP-00020-1.0	April 2024	Initial release.