

# Compatibility of string and M-series inverter with IQSC

# Compatibility Matrix

| Sr. No. | Product                      | IQ BATTERY 5P/ FP- Grid Agnostic      |
|---------|------------------------------|---------------------------------------|
| 1       | IQ7                          | Yes                                   |
| 2       | IQ8                          | Yes                                   |
| 3       | IQ7 + IQ8                    | Yes*. Available in Q4 2025.           |
| 4       | M Series                     | Needs a separate IQ Gateway/Envoy-R.  |
| 5       | IQ7/IQ8 + M Series           | Needs a separate IQ Gateway/Envoy-R.  |
| 6       | String Inverter              | Yes1                                  |
| 7       | String Inverter + IQ7/IQ8    | Yes1                                  |
| 8       | AC Battery                   | No                                    |
| 9       | IQ Battery 3T/10T            | No                                    |
| 10      | IQ Battery 5P                | Not with IQ Battery 5P with Flexphase |
| 11      | IQ Battery 5P with Flexphase | Not with IQ Battery 5P                |

\*Sunlight jumpstart feature will not be available

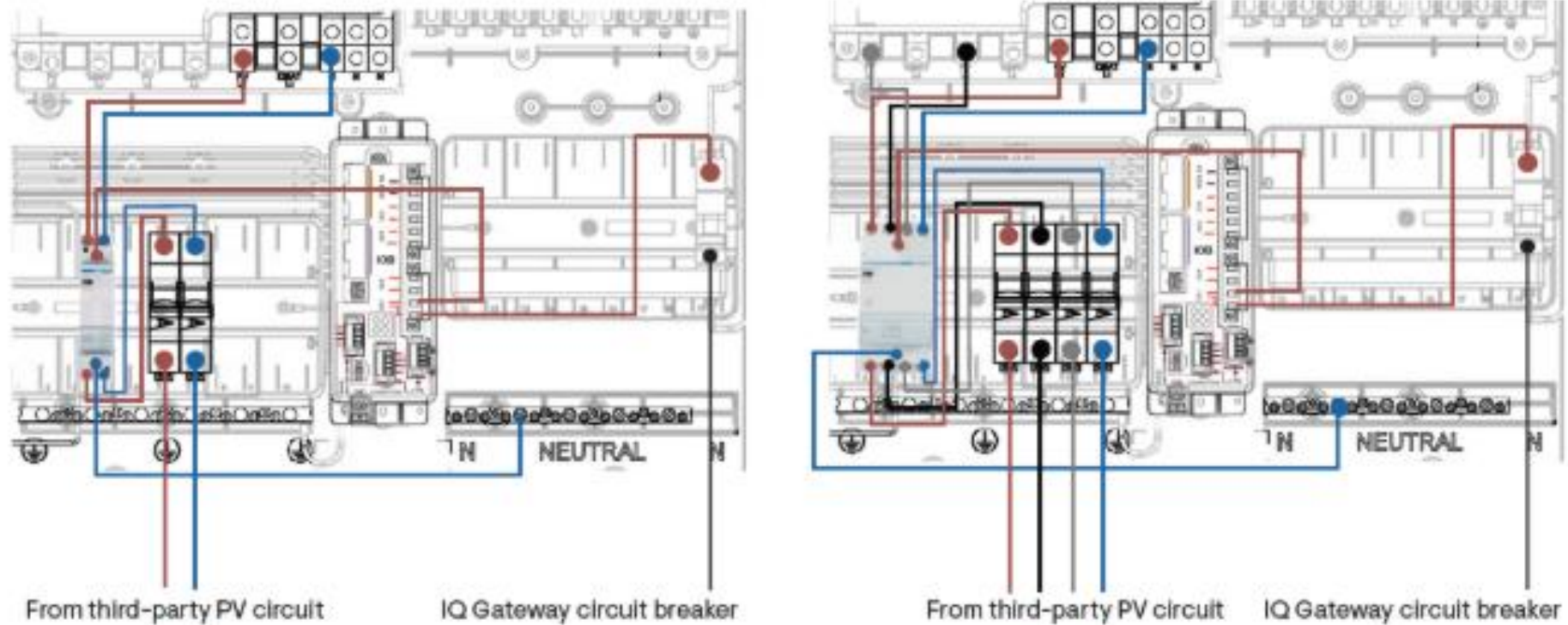
1. For sites with a string inverter, it is mandatory to wire the power terminals of the string inverter through an external Normally Open (NO) contactor connected to an auxiliary terminal on the I/O board of the IQ System Controller 3 INT, which will allow the string-inverter to operate as below:

- When the ratio of PV power to battery power is within 100%, the string inverter shall be connected to system and operate normally even in an off-grid condition along with an on-grid operation. As the battery approach 100% state of charge, the contactor will be used to disconnect the string inverter and will remain disconnected until state of charge drops to allow further battery charging.

This percentage setting can be adjusted within the ITK/ENHO.

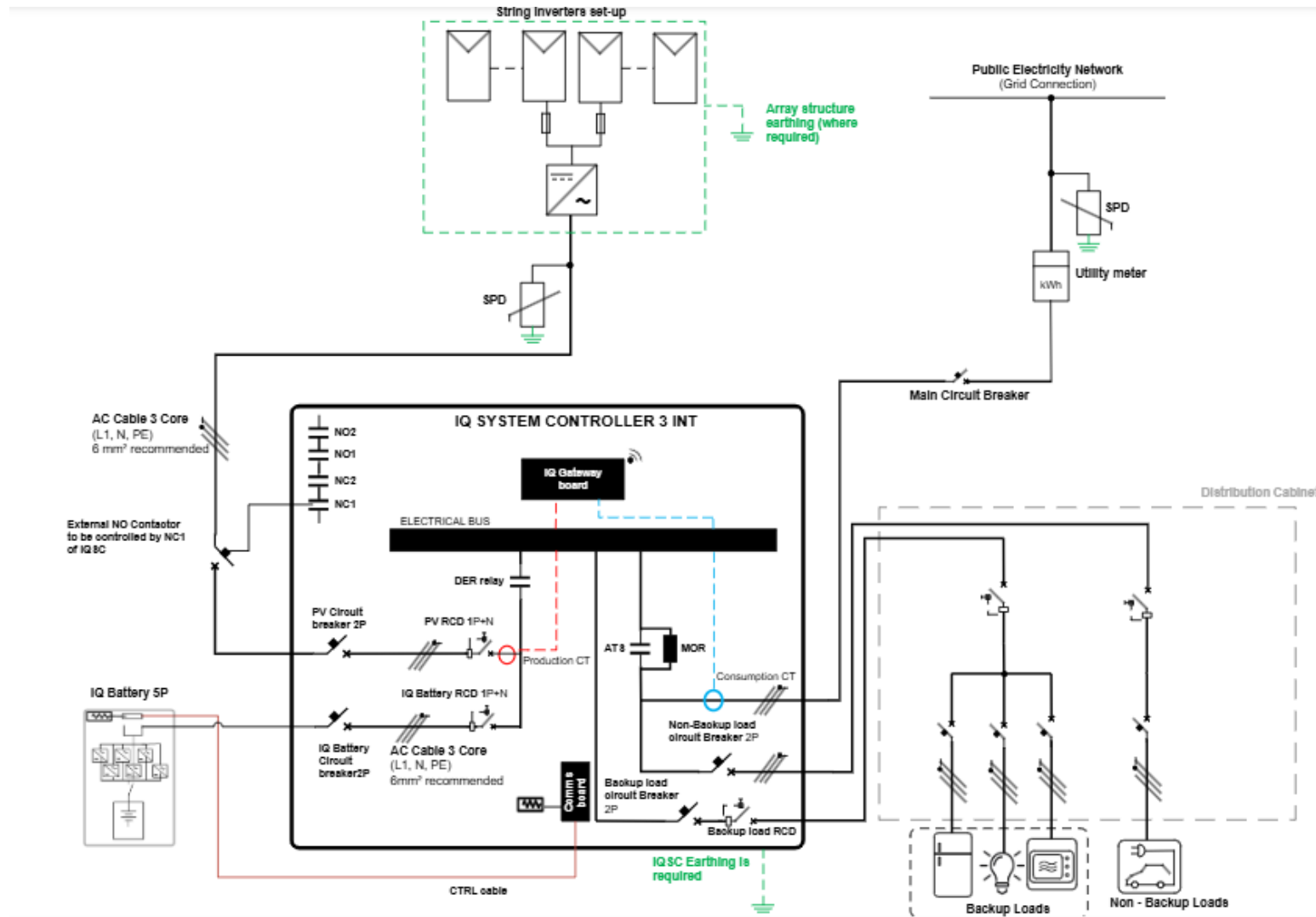
- When the ratio of PV power to battery power is higher than 100%, string inverter shall be connected to system only in on-grid operation and will be disconnected when system goes off-grid.

# Wiring the string or M series to IQSC

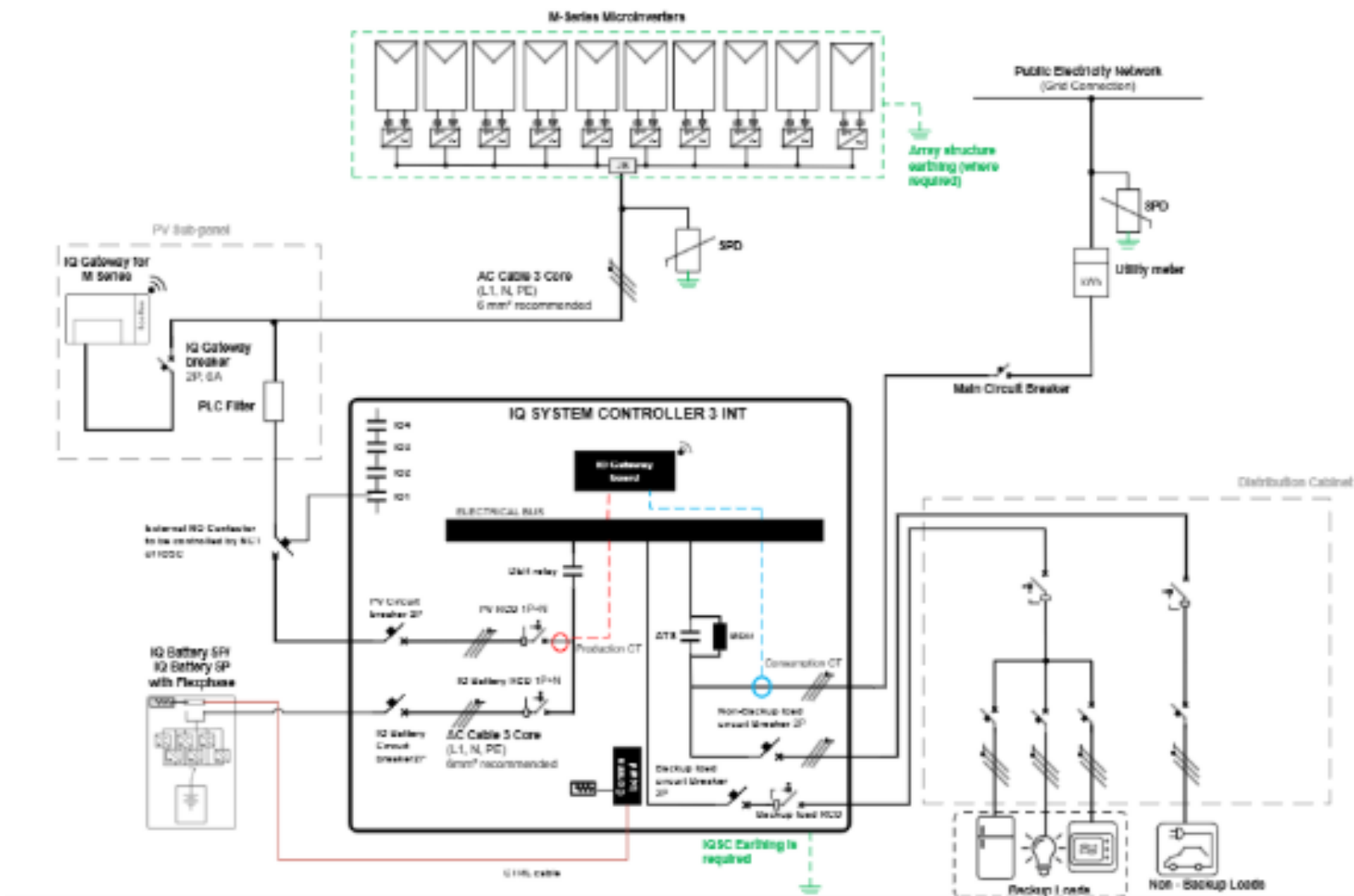


**NOTE:** M-Series microinverters are treated exactly same as any third-party string inverter system in ITK and IQ System Controller. M-Series microinverters cannot be directly connected to IQ System Controller and should retain the existing IQ Gateway. M-Series microinverters with existing IQ Gateway shall be considered as third-party inverter system.

# SLD for string inverter system



# SLD for M Series system



# ITK steps to be followed while commissioning

The image displays four sequential screenshots of the Enphase ITK app during the commissioning process for a third-party PV inverter.

- Screenshot 1 (2:05):** "Step 2 of 6: Devices and Configuration" - "Add Third Party PV Inverter". It shows input fields for Manufacturer Name\*, Model Name\*, and SKU\*. There are buttons for "Attach Image" and "Take Photo". Below are fields for "PV Power Production", "AC Capacity (kW)\*", "DC Capacity (kWp)\*", and "Select Phase\*". The "Next: Site Configuration" button is at the bottom.
- Screenshot 2 (2:08):** "Step 2 of 6: Devices and Configuration" - "Configuration List". It shows a progress bar and a list of settings to configure, including "Site Notes and Pictures", "Advanced settings", "Grid Interconnection Capacity", and "Auxiliary Contact". The "Next: Start Configuring" button is at the bottom.
- Screenshot 3 (2:09):** "Step 2 of 6: Devices and Configuration" - "Auxiliary Contact IO1". It shows the "Auxiliary Contact Configuration" section with "PV String Inverter Shedding" and "Auxiliary Contact" settings. The "Smart Control" section has two options: "Basic" (selected) and "Advanced". The "Next: Site Notes and Pictures" button is at the bottom.
- Screenshot 4 (6:34):** "Step 2 of 6: Devices and Configuration" - "Auxiliary Contact IO1". It shows the "Advanced Settings" section with "Shedding of Third-party DC String Inverter is based on state of charge of IQ Battery". It includes two sliders: "On Grid (PV Reconnect SoC)" and "Off Grid (PV Disconnect SoC)". The "Confirm" button is at the bottom.