

Permitting Guidelines for Enphase IQ Series Microinverters

Introduction

As part of our efforts to improve product reliability, supply chain flexibility, and on-field performance, Enphase is transitioning to a new bulkhead with DC connector manufactured by TE Connectivity (the world’s number one industrial and automotive connectivity manufacturer).

The new variant of IQ Series microinverters will incorporate the **EN4 Bulkhead**.

These Enphase Microinverters are identifiable through the model number designator “-E” (previous models are indicated by “-2”). Model numbers (SKUs) are listed below. Except for the change in DC connector, the IQ 7 Series Microinverters have the same functional specifications. See the data sheets for details.

The transition to this new variant of IQ series microinverters will begin from Q2 2020 and will continue through the year.

Model numbers

IQ7-60-E-US, IQ7PLUS-72-E-US, and IQ7X-96-E-US



Permitting Guidelines

For some time, IQ 7 Series model variants with both “-2” and “-E” will be available in the distribution channel. To make your transition easier, with regards to permitting and interconnection, please consider the following recommendations:

For permitting, inspectors may require that plans and electrical schematics with the Enphase IQ 7 Series Microinverters specify the IQ Microinverter model number (e.g., IQ7-60-2-US or IQ7-60-E-US). Enphase recommends submitting Enphase Microinverter model numbers using a “-X” in place of either the “-2” or “-E”. This allows for more flexibility of product availability at time of installation and inspection.

For many utility interconnections, the interconnection paperwork does not require specification of the DC connector type.

New IQ 7 Series Microinverter and Adapter Cable Model Numbers

Microinverter Model Number	Description
IQ7-60-E-US	IQ 7 for North America with EN4 Bulkhead includes TE Connectivity (TE) PV4-S SOLARLOK terminals
IQ7PLUS-72-E-US	IQ 7+ for North America with EN4 Bulkhead includes TE Connectivity (TE) PV4-S SOLARLOK terminals
IQ7X-96-E-US	IQ 7X for North America with EN4 Bulkhead includes TE Connectivity (TE) PV4-S SOLARLOK terminals
Adapter Cable Model Number	Description
ECA-EN4-S22	DC Adapter, EN4 (TE Connectivity (TE) PV4-S SOLARLOK) to Multi-Contact MC4, length 150mm / 5.9”
ECA-EN4-S22-L	DC Adapter, EN4 (TE Connectivity (TE) PV4-S SOLARLOK) to Multi-Contact MC4, length 600mm / 23.6”
ECA-EN4-FW	DC Adapter, EN4 (TE Connectivity (TE) PV4-S SOLARLOK) to unterminated cable, length 150mm / 5.9”. For field wiring of any DC Connector type.

At the time of installation, refer to the Enphase Quick Install Guide titled - “Install Enphase IQ 7 Series Microinverters with EN4 Bulkhead”.

DC adapter cables are available as needed, depending on regional compliance requirements.

For further information, contact your sales representative.