



Mobile Connect

With multiple carrier options, the Mobile Connect delivers easy and reliable networking for Enphase Energy Systems.



IQ Gateway

The IQ Gateway is the platform for energy management and integrates with the IQ Microinverters and IQ Batteries to provide complete control and insights into the Enphase Energy System.



Envoy-S Metered

The Envoy-S communications gateway delivers solar production and energy consumption data to Enphase App monitoring and analysis software for comprehensive, remote maintenance and management of the Enphase Microinverter System.

Smart

- Enables web-based monitoring and control

Flexible

- Provides multiple carrier options to choose from based on network coverage at the location of installation.

Reliable

- Designed for indoor or outdoor¹ installation
- Five-year warranty



Mobile Connect

MODEL NUMBERS	
Mobile Connect	This compact, rugged modem provides low-power, long-range cellular connections for fixed-location indoor and outdoor solar installations. This plug-and-play industrial-grade cellular modem supports systems of up to 60 microinverters. Select from the below models based on which operator provides the best coverage in your area ² .
- CELLMODEM-M1-06-SP-05	Modem with a five-year T-Mobile data plan. Available in the US, Canada, Puerto Rico, and the US Virgin Islands.
- CELLMODEM-M1-06-AT-05	Modem with a five-year AT&T data plan. Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, New Zealand, France, Netherlands, Germany, Austria, Belgium, Switzerland, and Spain.
GENERAL	
Performance	LTE CAT M1, EGPRS
Frequency band (MHz)	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B39 (Cat M1 only) EGPRS: 850/900/1800/1900 MHz
Data plan duration	Five-year prepaid plan
Monitoring	Updates data to Enphase Installer Platform every six hours (at 3 a.m (03:00), 9 a.m (09:00), 3 p.m (15:00), 9 p.m (21:00) local time)
SUPPORTED SYSTEMS	
Grid tied systems ³	Primary ⁴ connectivity for residential systems with up to 60 microinverters
Grid forming systems ³	Backup connectivity ⁵ for IQ Battery systems
POWER REQUIREMENTS	
Voltage	USB powered - 5 V
CONNECTORS	
Internal RF antenna	50 ohm SMT customized flex antenna
USB	Type A USB
MECHANICAL DATA	
Dimensions (W × H × D)	91 mm × 60 mm × 15 mm
Weight	100 gms (approximate)
Chassis type	Plastic
Operating temperature	-40°C to 65°C
Storage temperature	-40°C to 65°C
Humidity	Relative humidity 15% to 93%
Environmental rating	If installed outdoors, install Mobile Connect cellular modem in NEMA 3R or IP54-rated enclosure.
COMPLIANCE	
Regulatory	FCC Class B (US), IC (Canada), IFT (Mexico), RCM (Australia), R-NZ (New Zealand), CE (EU), UKCA (UK)
Safety	UL-62368-1, IEC/EN 62368-1:2014, CSA C22.2 NO. 62368-1-14
Network	PTCRB, AT&T, T-Mobile
SUPPORTED COMBINER AND IQ GATEWAY MODELS	
All IQ Combiner, IQ Gateway/Envoy-S models that run gateway software version 7.0 or above support CELLMODEM-M1-06.	

1. Must be installed inside NEMA 3R/IP54 rated enclosure.
2. Actual performance speeds may be affected by a variety of attributes such as cell tower distance, data loads, packet sizes, etc.
3. Enphase systems that have an IQ System Controller installed is a grid forming system. The systems that do not have an IQ System Controller and only have Enphase PV Microinverters and/or IQ Batteries are grid tied systems.
4. When cellular modem provides primary connectivity, the IQ Gateway does not need Ethernet or Wi-Fi connectivity.
5. In a grid forming system, Enphase requires Wi-Fi or Ethernet based internet connectivity. Cellular modem provides backup when Ethernet or Wi-Fi fails.

To learn more about Enphase offerings, visit enphase.com

Revision history

REVISION	DATE	DESCRIPTION
DSH-00045-1.0	May 2023	Updated “Supported System” section. Updated the list of countries for CELLMODEM-M1-06-AT-05 and CELLMODEM-M1-06-SP-05 in “Model Numbers” section.

Previous releases