Microinverter Datasheet

MI-700LV

Description

With the maximum output power of 700 W, Hoymiles MI-700LV microinverter connects up to 2 panels at once and enables module-level maintenance and management of the PV station by monitoring power generation of each module.

Module-level data can be uploaded to the Hoymiles Monitoring Platform S-Miles Cloud via Hoymiles data transfer units through 2.4G wireless communication.

Features

01 Single microinverter connects two PV modules with individual MPPT	**04** Static MPPT efficiency 99.80%, Dynamic MPPT efficiency 99.76% in overcast weather
02 Maximum output power up to 700 W, adapted to 60-cell & 72-cell PV panels	**05** High reliability, NEMA 6 (IP67) enclosure, 6000 V surge protection
03 CEC Peak efficiency 95.0%	**06** Compliant with 120 V & 127 V power grid

Technical Specifications

Model	MI-700LV
Input Data (DC)	
Commonly used module power (W)	280–440
Peak power MPPT voltage range (V)	33–48
Start-up voltage (V)	22
Operating voltage range (V)	16–60
Maximum input voltage (V)	60
Maximum input current (A)	2 × 11.5
Output Data (AC)	
Rated output power (W)	700
Rated output current (A)	5.83
Nominal output voltage range (V)	120/95–155[1]
Nominal frequency/range (Hz)	60/55–65[1]
Power factor	> 0.99
Total harmonic distortion	< 3%
Maximum units per branch	4
Efficiency	
CEC peak efficiency	95.0%
Nominal MPPT efficiency	99.80%
Nighttime power consumption (mW)	< 50
Mechanical Data	
Ambient temperature range (°C)	-40 to +65
Dimensions (W × H × D mm)	250 × 170 × 28
Weight (kg)	3.0 (including 2.32 m AC cable)
Enclosure rating	Outdoor NEMA 6 (IP67)
Cooling	Natural convection (no fans)
Features	
Communication	2.4 GHz Proprietary RF (Nordic)
Monitoring	S-Miles Cloud[2]
Warranty	Up to 25 years
Compliance	UL 1741, ABNT NBR 16150, IEC/EN 61000-3-2/-3, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62109-1/-2, IEC 61727, IEC 62116, IEC 61683, VDE V 0126-1-1:2013

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Hoymiles Monitoring System