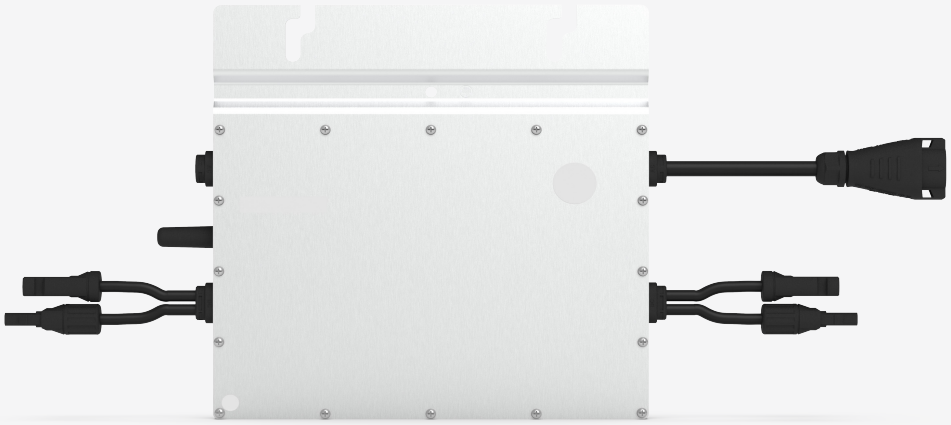

Microinverter Datasheet

HM-600NT
HM-700NT
HM-800NT

Description

Hoymiles 2-in-1 microinverter can connect up to 2 panels at once and maximize the PV production of your installation. With a maximum DC voltage of 60 V, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218.

All of the three models listed are equipped with reactive power control and can meet the requirements of IEEE 1547, UL 1741, and CA Rule 21.

Features

01 Easy installation, just plug and play

02 With Reactive Power Control, compliant with CA Rule 21

03 Compliant with U.S. NEC-2017&NEC-2020 690.12 rapid shutdown

04 External antenna for stronger communication with DTU

05 High reliability: NEMA 6 (IP67) enclosure, 6000 V surge protection

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Technical Specifications

Model	HM-600NT		HM-700NT		HM-800NT	
Input Data (DC)						
Commonly used module power (W)[1]	240 to 405+		280 to 470+		320 to 540+	
Maximum input voltage (V)	60					
MPPT voltage range (V)	16-60					
Start-up voltage (V)	22					
Maximum input current (A)	2 × 11.5		2 × 11.5		2 × 12.5	
Maximum input short circuit current (A)	2 × 15					
Number of MPPTs	2					
Number of inputs per MPPT	1					
Output Data (AC)						
Peak output power (VA)	600		700		800	
Maximum continuous output power (VA)	590		696		766	
Maximum continuous output current (A)	2.46	2.84	2.90	3.35	3.19	3.68
Nominal output voltage/range (V)[2]	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz)[2]	60/55-65					
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion	< 3%					
Maximum units per 10 AWG branch[3]	9	8	8	7	7	6
Maximum units per 12 AWG branch[3]	6	5	5	4	5	4
Efficiency						
CEC peak efficiency	96.7%					
CEC weighted efficiency	96.5%					
Nominal MPPT efficiency	99.8%					
Nighttime power consumption (mW)	<50					
Mechanical Data						
Ambient temperature range (°F)	-40 to +149 (-40°C to +65°C)					
Dimensions (W × H × D [in.])	9.84 × 6.69 × 1.10 (250 × 170 × 28 mm)					
Weight (lbs)	5.73 (2.6 kg)					
Enclosure rating	Outdoor-NEMA 6 (IP67)					
Cooling	Natural convection – No fans					
Features						
Communication	2.4 GHz Proprietary RF (Nordic)					
Type of isolation	Galvanically Isolated HF Transformer					
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)					
Warranty	Up to 25 years					
Compliance	UL 1741, IEEE 1547, UL 1741 SA (240 Vac),UL 1741 SB, CA Rule 21 (240 Vac)[4], CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 15C					
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems					

*1 Within the allowable voltage and current range, the microinverter supports a DC/AC ratio of up to 1.5.
*2 Nominal voltage/frequency range can vary depending on local requirements.
*3 Refer to local requirements for exact number of microinverters per branch.
*4 The HM-800NT microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).