



# 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 Rule21.

## 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

# Technical Specifications

Model	HM-600NT		HM-700NT		HM-800NT	
<b>Input Data (DC)</b>						
Commonly used module power (W)	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			
<b>Output Data (AC)</b>						
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) <sup>1</sup>	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz) <sup>1</sup>			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 <sup>2</sup>	9	8	8	7	7	6
Maximum units per 12 AWG branch <sup>2</sup>	6	5	5	4	5	4
<b>Efficiency</b>						
CEC peak efficiency			96.7%			
CEC weighted efficiency			96.5%			
Nominal MPPT efficiency			99.8%			
Nighttime power consumption (mW)			<50			
<b>Mechanical Data</b>						
Ambient temperature range (°C)			-40 to +65			
Dimensions (W × H × D [mm])			250 × 170 × 28			
Weight (kg)			2.6			
Enclosure rating			Outdoor-NEMA 6 (IP67)			
Cooling			Natural convection – No fans			
<b>Features</b>						
Communication			2.4 GHz Proprietary RF (Nordic)			
Type of isolation			Galvanically Isolated HF Transformer			
Monitoring			S-Miles Cloud <sup>3</sup>			
Warranty			Up to 25 years			
Compliance			UL 1741, IEEE 1547, UL 1741 SA (240 Vac), UL 1741 SB, CA Rule 21 (240 Vac) <sup>4</sup> , 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 Nominal voltage/frequency range can vary depending on local requirements.

\*2 Refer to local requirements for exact number of microinverters per branch.

\*3 Hoymiles Monitoring System

\*4 The HM-800NT microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).