



# Microinverter Datasheet

**HM-300NT**  
**HM-350NT**  
**HM-400NT**

## Description

Hoymiles 1-in-1 microinverter, which can be connected to one panel and used in various applications, is one of the most flexible solar solutions. 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-300NT		HM-350NT		HM-400NT	
<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)	11.5		11.5		12.5	
Maximum input short circuit current (A)			15			
Number of MPPT			1			
Number of inputs per MPPT			1			
<b>Output Data (AC)</b>						
Peak output power (VA)	300		350		400	
Maximum continuous output power (VA)	295		349		382	
Maximum continuous output current (A)	1.23	1.42	1.45	1.68	1.59	1.84
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>	19	16	16	14	15	13
Maximum units per 12 AWG branch <sup>2</sup>	13	11	11	9	10	8
<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])			182 × 164 × 29.5			
Weight (kg)			1.75			
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-400NT microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).