



# Microinverter Datasheet

**HM-300NA**  
**HM-350NA**  
**HM-400NA**

## Description

Hoymiles 1-in-1 microinverter HM-300/350/400NA is one of the most popular microinverters on the market. It features stable performance and more comprehensive additional functions.

Equipped with Reactive Power Control, it is compliant with UL 1741. Its external antenna enables stronger communication with DTU.

## Features

01

Easy installation, just plug and play

02

With Reactive Power Control

03

External antenna for stronger communication with DTU

04

High reliability; NEMA 6 (IP67) enclosure; 6000V surge protection

05

Compliant with CA Rule 21 & U.S. NEC 2014/2017 690.12 rapid shutdown

# Technical Specifications

Model	HM-300NA	HM-350NA	HM-400NA
<b>Input Data (DC)</b>			
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+
Peak power MPPT voltage range (V)	29–48	33–48	34–48
Start-up voltage (V)		22	
Operating voltage range (V)		16–60	
Maximum input voltage (V)		60	
Maximum input current (A)	11.5	11.5	12.5
<b>Output Data (AC)</b>			
Rated 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 (V) <sup>1</sup>	240/211–264/208/183–228		
Nominal frequency/range (Hz) <sup>1</sup>	60/55–65		
Power factor (adjustable)	> 0.99 default 0.85 leading...0.85 lagging		
Total harmonic distortion	< 3%		
Maximum units per 20A branch <sup>2</sup>	13/11	11/9	10/8
Maximum units per 30A branch <sup>2</sup>	19/16	16/14	15/13
<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	2.4GHz Proprietary RF (Nordic)		
Monitoring	Hoymiles Monitoring System		
Warranty	Up to 25 years		
Compliance	UL 1741, IEEE 1547, UL1741 SA (240Vac), CA Rule 21 (240Vac), CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 15C		
PV Rapid Shutdown	Conforms with NEC-2014 and NEC-2017 Article 690. 12 and CEC-2018 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.