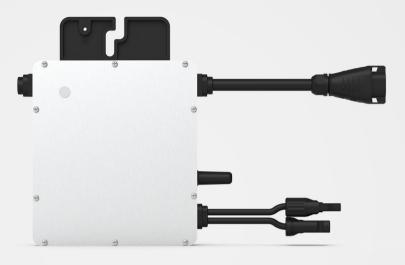
hoymiles



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	04	External antenna for stronger communication with DTU
02	With Reactive Power Control, compliant with CA Rule 21		
03	Compliant with U.S. NEC-2017&NEC-2020 690.12 rapid shutdown	05	High reliability: NEMA 6 (IP67) enclosure, 6000 V surge protection

Technical Specifications

Model	HM-300NT		HM-350NT		HM-400NT			
Input Data (DC)					-			
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							
Output Data (AC)								
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) ¹	240/211-264	208/183-228	240/211-264	208/183-228	240/211-264	208/183-228		
Nominal frequency/range (Hz) ¹			60/5	5-65				
Power factor (adjustable)	>0.99 default 0.8 leading 0.8 lagging							
Total harmonic distortion	<3%							
Maximum units per 10 AWG branch ²	19	16	16	14	15	13		
Maximum units per 12 AWG branch ²	13	11	11	9	10	8		
Efficiency			-	-				
CEC peak efficiency	96.7%							
CEC weighted efficiency	ed efficiency 96.5%							
Nominal MPPT efficiency	99.8%							
Nighttime power consumption (mW)			<	50				
Mechanical Data								
Ambient temperature range (°C)	-40 to +65							
Dimensions (W \times H \times D [mm])	182 × 164 × 29.5							
Weight (kg)	ght (kg) 1.75							
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	s Cloud ³				
Warranty			Up to 2	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 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).