



# Microinverter Datasheet

## HMS-800-2T-LV

### Description

Hoymiles 2-in-1 microinverter can connect up to 2 panels at once with independent MPPT and maximize the PV production of your installation.

This model is designed for 120 V & 127 V power grid and can meet the requirements of UL 1741, ABNT NBR 16150, etc.

New Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

### Features

- 01 Compliant with 120 V & 127 V power grid
- 02 Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer

- 03 Independent MPPT and monitoring
- 04 New Sub-1G wireless solution enables more stable communication

## Technical Specifications

Model	HMS-800-2T-LV
<b>Input Data (DC)</b>	
Commonly used module power (W)	320 to 540+
Maximum input voltage (V)	65
MPPT voltage range (V)	16-60
Start-up voltage (V)	22
Maximum input current (A)	2 × 12.5
Maximum input short circuit current (A)	2 × 20
Number of MPPTs	2
Number of Inputs per MPPT	1
<b>Output Data (AC)</b>	
Rated output power (VA)	800
Rated output current (A)	6.67
Nominal output voltage/range (V) <sup>1</sup>	120/90-150
Nominal frequency/range (Hz) <sup>1</sup>	50/45-55 or 60/55-65
Power factor (adjustable)	> 0.99 default 0.8 leading...0.8 lagging
Total harmonic distortion	< 3%
Maximum units per 12AWG branch <sup>2</sup>	3
<b>Efficiency</b>	
CEC peak efficiency	95.00%
Nominal MPPT efficiency	99.80%
Night power consumption (mW)	< 50
<b>Mechanical Data</b>	
Ambient temperature range (°C)	-40 to +65
Dimensions (W × H × D mm)	261 × 180 × 31
Weight (kg)	3.1
Enclosure rating	Outdoor IP67 (NEMA 6)
Cooling	Natural convection (No fans)
<b>Features</b>	
Communication	Sub-1G
Type of isolation	Galvanically Isolated HF Transformer
Monitoring	Hoymiles S-Miles Cloud <sup>3</sup>
Compliance	UL 1741, ABNT NBR 16150:2013, ABNT NBR 16149:2013

\*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