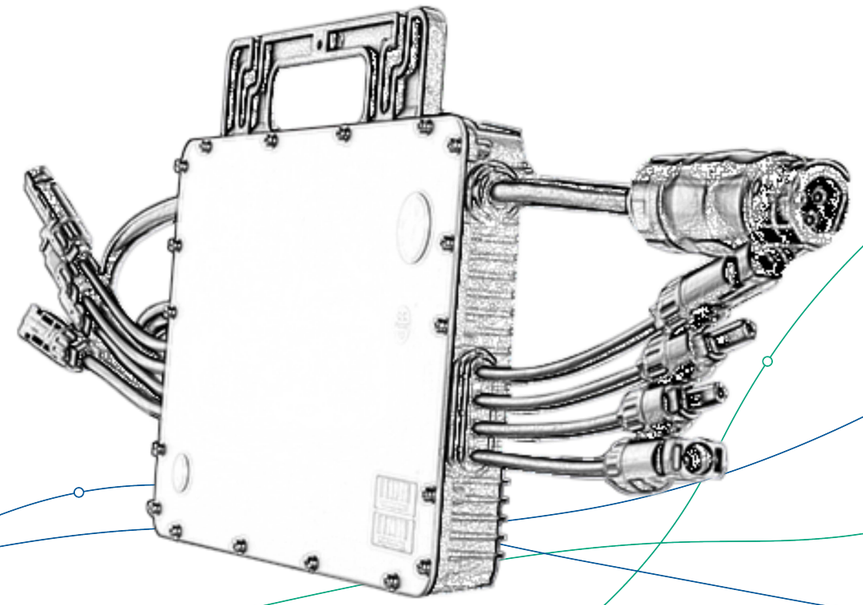
HUAYUJ® NEW ENERGY | hoymiles

**World leading MLPE PV inverter brand**

Safer · Stronger · Smarter · Smaller



# MICROINVERTER

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# Contents


About Hoymiles 01

Hoymiles Microinverters 05
4 in 1 Unit（for 4 panels）
2 in 1 Unit（for dual panels）
Single Unit （for single panel）

Microinverter Accessories 11

Smart Monitoring 13

Global Applications 17

Global Service 21

# Hoymiles Introduction

Hoymiles is a world leading microinverter company specialising in MLPE (Module-Level Power Electronics) solutions for global solar investors & end users.

As one of the fastest growing inverter brands globally, Hoymiles provides a safer and smarter module-level MPPT and monitoring microinverter in over 50 countries including the U.S., Europe, Australia, Latin America, India, Japan, Korea, South East Asia, the Middle East and South Africa.

Hoymiles was founded in 2008 by 3 post-doctors operating as a R&D team in China's National Power Electronics Laboratory, based at Zhejiang University, one of the top 3 universities in China and one of the top 60 in the world.

In 2015, Hoymiles microinverter achieved the world's highest CEC peak efficiency - 96.7% in California, U.S., which ranked it as the most efficient microinverter globally when compared with other well known brands.

An interview-based article in 2017 by PV-Tech, the leading professional solar media organisation, entitled "The Biggest Microinverter Firm You Have Never Heard Of", spread the Hoymiles name around the world as the "Invisible Champion" of microinverters in the Chinese PV market, now supplying over 50% of the world's solar installations with 53GW in 2017.

Today, 10,000+ commercial & residential rooftop installations (the biggest one 3.6MW) are built annually using different models of Hoymiles microinverters: single unit (MI-250/300), 2 in 1 unit (MI-500/600/700) & 4 in 1 unit (MI-1000/1200).

Thanks to the constant efforts of Hoymiles' 500+ staff, together with distribution and service partners all over the world, the company has established local logistics & service networks in over 20 countries, including Germany, the Netherlands, Poland, Estonia, Brazil, Mexico, South Africa, the U.S., Canada, Korea & India.

Localisation is the key to the company's ongoing success - the combination of local warehouses, local training and local service centers keeps Hoymiles together with its local customers 24/7, 365 days a year.



# Hoymiles Milestone

## 2008

Establish R&D team of PV inverters in the National Key Power Electronics Laboratory of P.R.China.

## 2010

Successful design of smart modular PV on-grid inverters for PV power station in P.R.China.

## 2011

Successful design of microinverter with multiple international certificates.

## 2012

All series of Hoymiles 50kW-500kW smart modular PV on-grid inverter gain the certification of "CQC-SOLAR". Hoymiles becomes a member of Hangzhou PV Association.

## 2013

Hoymiles joins the writing of national compulsory standard of PV on-grid inverter.

## 2014

Hoymiles microinverters are certificated by CSA, BV, SAA and CQC.

## 2015

Hoymiles 250W & 500W microinverters enter the USA, Europe & Australia market. Over 10,000 rooftops are installed by Hoymiles microinverters globally.

## 2016

Hoymiles R&D team wins the second prize of National Natural Science Award of P.R.China.

## 2017

The World's largest microinverter project (3.6MW) is built by Hoymiles with 6,000 units of 2 in 1 unit MI-600; Hoymiles is authorized as CSA testing laboratory.

## 2018

New generation MI-1200 achieves the world's No.1 CEC weighted efficiency for 4 in 1 microinverter.

SEIA Member | SolarPower Europe | California Solar + Storage Association Member

**10+** SCI/EI Papers

**50+** Export Countries

**100+** R&D Engineers

**2000+** Group Staff

**The Top** World's No.1 CEC Weighted Efficiency for 4 in 1 Microinverter (MI-1200) - **96.50%**

**The Biggest** The Biggest Microinverter Supplier in the Chinese Market

**The Best** The Best Power Density Ever for Microinverter



# Advantages of Hoymiles MLPE Microinverters

**Safer**

100% safe up to 60V DC input voltage (natural rapid shutdown); IP67

**Smarter**

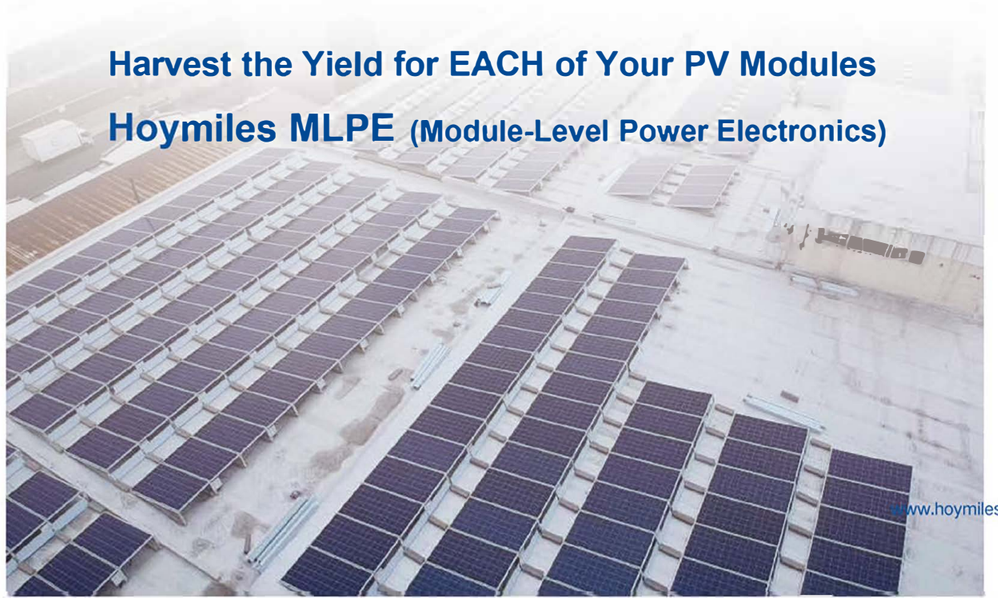
Smarter monitoring for remote module-level troubleshooting & maintenance

**More Powerful**

Module-level MPPT & unique parallel design ensuring 10-30% higher yield than series-wound PV system

**More Reliable**

6000V surge protection; MTBF (mean time between failure) > 550 years; Yearly failure rate < 0.18%



# Microinverter
## 4 in 1 unit

# MI-1000 / MI-1200 / MI-1500

"The World's First Single-Phase Microinverter" designed for 4 solar panels with dual MPPT, with wide DC input operating voltage range (16-60V) and low start-up voltage (22V only).

Hoymiles 4 in 1 microinverter MI-1000/MI-1200/MI-1500 is "The Best Power Density Microinverter" ever in the solar industry with extremely light weight - only 3.75kG including integrated DC & AC cables; 3-phase wiring makes it easy to be configured by Hoymiles 4 in 1 microinverter for MW size commercial PV power stations (one of the world's biggest microinverter projects configured by Hoymiles microinverter is 3.6MW).

# Highlights

- Maximum output power up to 1000/1200/1500W; Adapted to 60 & 72 cells PV panels
- Peak efficiency 96.60%; CEC weighted efficiency 96.50%
- Static MPPT efficiency 99.80%; Dynamic MPPT efficiency 99.76% in overcast weather
- High reliability: NEMA6 (IP67) enclosure ; 6000V surge protection



| Model | MI-1000 / MI-1200 / MI-1500 (4 X 60 cells or 4 X 72 cells) | | | |
|---|---|---|---|---|
| **Input Data (DC)** | | | | |
| Commonly used module power (W) | Up to 310 / 380 / 470 (single panel) | | | |
| Peak power MPPT voltage range (V) | 27 ~ 48 / 32 ~ 48 / 36 ~ 48 | | | |
| Start-up voltage (V) | 22 | | | |
| Operating voltage range (V) | 16 ~ 60 | | | |
| Maximum input voltage (V) | 60 | | | |
| Maximum input current (A) | 10.5 / 10.5 / 11.5 | | | |
| **Output Data (AC)** | @208V AC | @240V AC | @220V AC | @230V AC |
| Rated output power (W) | 1000 / 1200 / 1500 | 1000 / 1200 / 1500 | 1000 / 1200 / 1500 | 1000 / 1200 / 1500 |
| Rated output current (A) | 4.81 / 5.77 / 7.21 | 4.17 / 5 / 6.25 | 4.54 / 5.45 / 6.81 | 4.35 / 5.21 / 6.52 |
| Nominal output voltage/range (V) | 208/180-275 | 240/180-275 | 220/180-275 | 230/180-275 |
| Nominal frequency/range (Hz) | 60/55-65 | 60/55-65 | 50/45-55 or 60/55-65 | 50/45-55 |
| Power factor | > 0.99 | > 0.99 | > 0.99 | > 0.99 |
| Total harmonic distortion | < 3% / < 3% / < 5% | < 3% / < 3% / < 5% | < 3% / < 3% / < 5% | < 3% / < 3% / < 5% |
| Maximum units per branch | 4 / 4 / 3 | 5 / 4 / 3 | 5 / 4 / 3 | 5 / 4 / 3 |
| **Efficiency** | | | | |
| CEC peak efficiency | 96.70% / 96.60% / 96.60% | | | |
| CEC weighted efficiency | 96.50% | | | |
| Nominal MPPT efficiency | 99.80% | | | |
| Nighttime power consumption (mW) | <50 | | | |
| **Mechanical Data** | | | | |
| Ambient temperature range (°C) | -40 ~ +65 | | | |
| Dimensions (W X H X D mm) | 280 X 176 X 33 | | | |
| Weight (kG) | 3.75 (including 2.32m AC cable) | | | |
| Enclosure rating | Outdoor-NEMA6 (IP67) | | | |
| Cooling | Natural convection - No fans | | | |
| **Loading Quantity** | | | | |
| Container | 1 X 20'GP | 1 X 40'GP / 1 X 40'HQ | | |
| Pallet No. | 10 | 22 | | |
| Carton No. | 360 | 756 | | |
| Total quantity | 1800 | 3780 | | |
| **Other Features** | | | | |
| Communication | 2.4G RF | | | |
| Monitoring | Hoymiles Monitoring System | | | |
| Design lifetime | > 25 years | | | |
| **Standard Compliance** | | | | |
| EMC | EN61000-6-3:2007+A1:2011 EN61000-6-2:2005EN61000-3-2:2014 EN61000-3-3:2013 | | | |
| Safety | EN62109-1:2010EN62109-2:2011IEC 62109-1 Ed 1.0IEC 62109-2 Ed 1.0 UL Std No.1741-Second EditionEN 60529 | | | |
| On-Grid | AS/NZS 4777.2:2015VDE-AR-N4105:2011-08DIN V VDE V 0126-1-1/A1:2012-02 IEC61727:2004EN50438:2013ANSI /IEEE1547.1IEC62116:2011UTE C 15-712-1:2010-07 NBT32004-2013 | | | |

# Microinverter
## 2 in 1 unit

# MI-500 / MI-600 / MI-700

"The World's First Daisy-Chain 2 in 1 Microinverter for Large Scale Commercial Application" is designed for dual solar panels with double MPPT, and wide DC input operating voltage range (16-60V) and low start-up voltage (22V only).

Hoymiles 2 in 1 microinverter MI-500/MI-600/MI-700 is the world's most powerful microinverter solution for dual solar panels with world's leading CEC weighted efficiency 96.5%; with quicker installation and much higher power density compared with single unit, it's also one of the best-selling microinverters for Hoymiles up to now worldwide.

# Highlights

- Maximum output power up to 500/600/700W; Adapted to 60 & 72 cells PV panels
- Peak efficiency 96.70%; CEC weighted efficiency 96.50%
- Static MPPT efficiency 99.80%; Dynamic MPPT efficiency 99.76% in overcast weather
- High reliability: NEMA6 (IP67) enclosure; 6000V surge protection



| Model | MI-500 / MI-600 / MI-700 (2 X 60 cells or 2 X 72 cells) | | | |
|---|---|---|---|---|
| **Input Data (DC)** | | | | |
| Commonly used module power (W) | Up to 310 / 380 / 440 (single panel) | | | |
| Peak power MPPT voltage range (V) | 27 ~ 48 / 29 ~ 48 / 33 ~ 48 | | | |
| Start-up voltage(V) | 22 | | | |
| Operating voltage range (V) | 16 ~ 60 | | | |
| Maximum input voltage (V) | 60 | | | |
| Maximum input current (A) | 10.5 / 11.5 / 11.5 | | | |
| **Output Data (AC)** | @208V AC | @240 AC | @220V AC | @230V AC |
| Rated output power (W) | 500/600/700 | 500/600/700 | 500/600/700 | 500/600/700 |
| Rated output current (A) | 2.40/2.88/3.36 | 2.08/2.50/2.91 | 2.27/2.72/3.28 | 2.17/2.60/3.04 |
| Nominal output voltage/range (V) | 208/180-275 | 240/180-275 | 220/180-275 | 230/180-275 |
| Nominal frequency/range (Hz) | 60/58-62 | 60/58-62 | 50/45-55 or 60/55-65 | 50/45-55 or 60/55-65 |
| Power factor | > 0.99 | > 0.99 | > 0.99 | > 0.99 |
| Total harmonic distortion | < 3% | < 3% | < 3% | < 3% |
| Maximum units per branch | 9 / 7 / 6 | 10 / 8 / 7 | 10 / 8 / 7 | 10 / 8 / 7 |
| **Efficiency** | | | | |
| CEC peak efficiency | 96.70% | | | |
| CEC weighted efficiency | 96.50% | | | |
| Nominal MPPT efficiency | 99.80% | | | |
| Nighttime power consumption (mW) | < 50 | | | |
| **Mechanical Data** | | | | |
| Ambient temperature range (°C) | -40 ~ +65 | | | |
| Dimensions (W X H X D mm) | 250 X 170 X 28 | | | |
| Weight (kG) | 3.00 (including 2.32m AC cable) | | | |
| Enclosure rating | Outdoor-NEMA6 (IP67) | | | |
| Cooling | Natural convection - No fans | | | |
| **Loading Quantity** | | | | |
| Container | 1 X 20'GP | 1 X 40'GP / 1 X 40'HQ | | |
| Pallet No. | 10 | 22 | | |
| Carton No. | 480 | 1008 | | |
| Total quantity | 2400 | 5040 | | |
| **Other Features** | | | | |
| Communication | 2.4G RF | | | |
| Monitoring | Hoymiles Monitoring System | | | |
| Design lifetime | > 25 years | | | |
| **Standard Compliance** | | | | |
| EMC | EN61000-6-3:2007+A1:2011EN61000-6-2:2005EN61000-3-2:2014 EN61000-3-3:2013 | | | |
| Safety | EN62109-1:2010EN62109-2:2011IEC 62109-1 Ed 1.0IEC 62109-2 Ed 1.0 UL Std No.1741-Second EcitionEN 60529 | | | |
| On-Grid | AS/NZS 4777.2:2015VDE-AR-N4105:2011-08DIN V VDE V 0126-1-1/A1:2012-02 IEC61727:2004EN50438:2013ANSI/IEEE1547.1IEC62116:2011UTE C 15-712-1:2010-07 NBT32004-2013 | | | |

# Microinverter
## Single unit

# MI-250 / MI-300 / MI-350

"The World's First Daisy-Chain Single Unit Microinverter" with extremely wide DC input operating voltage range (16-60V) and low start-up voltage (22V only).

Hoymiles single unit microinverter MI-250/MI-300/MI-350 is the perfect selection for PV system with uneven number of panel numbers with world's No.1 CEC weighted efficiency - 96.50% (peak efficiency - 96.70%) in 2015.

# Highlights

- Maximum output power up to 250/300/350W; Adapted to 60 & 72 cells PV panels
- Peak efficiency 96.70%; CEC weighted efficiency 96.50%
- Static MPPT efficiency 99.80%; Dynamic MPPT efficiency 99.76% in overcast weather
- High reliability: NEMA6 (IP67) enclosure; 6000V surge protection



| Model | MI-250 / MI-300 / MI-350 (1 X 60 cells or 1 X 72 cells) | | |
|---|---|---|---|
| **Input Data (DC)** | | | |
| Commonly used module power (W) | Up to 310 / 380 / 440 | | |
| Peak power MPPT voltage range (V) | 27~48 / 32 ~ 48 / 33 ~ 48 | | |
| Start-up voltage(V) | 22 | | |
| Operating voltage range (V) | 16 ~60 | | |
| Maximum input voltage (V) | 60 | | |
| Maximum input current (A) | 10.5 / 10.5 / 11.5 | | |
| **Output Data (AC)** | **@208V AC** | **@240V AC** | **@230V AC** |
| Rated output power (W) | 250 / 300 / 350 | 250 / 300 / 350 | 250 / 300 / 350 |
| Rated output current (A) | 1.20 / 1.44 / 1.68 | 1.04 / 1.25 / 1.45 | 1.08 / 1.30 / 1.52 |
| Nominal output voltage/range (V) | 208/180-275 | 240/180-275 | 230/180-275 |
| Nominal frequency/range (Hz) | 60/58-62 | 60/58-62 | 50/45-55 or 60/58-62 |
| Power factor | >0.99 | >0.99 | >0.99 |
| Total harmonic distortion | <3% | <3% | <3% |
| Maximum units per branch | 18 / 15 / 13 | 21 / 17 / 15 | 20 / 16 / 14 |
| **Efficiency** | | | |
| CEC peak efficiency | 96.70% | | |
| CEC weighted efficiency | 96.50% | | |
| Nominal MPPT efficiency | 99.80% | | |
| Nightlime power consumption (mW) | < 50 | | |
| **Mechanical Data** | | | |
| Ambient temperature range (°C) | -40 ~ +65 | | |
| Dimensions (W X H X D mm) | 178 X 153 X 28 | | |
| Weight (kG) | 1.98 (including 1.35m AC cable) | | |
| Enclosure rating | Outdoor-NEMA6 (IP67) | | |
| Cooling | Natural convection - No fans | | |
| **Loading Quantity** | | | |
| Container | 1 X 20'GP | 1 X 40'GP / 1 X 40'HQ | |
| Pallet No. | 10 | 22 | |
| Carton No. | 600 | 1260 | |
| Total quantity | 3000 | 6300 | |
| **Other Features** | | | |
| Communication | 2.4G RF | | |
| Monitoring | Hoymiles Monitoring System | | |
| Design lifetime | > 25 years | | |
| **Standard Compliance** | | | |
| EMC | EN61000-6-3:2007+A1:2011EN61000-6-2:2005EN61000-3-2:2014 EN61000-3-3:2013 | | |
| Safely | EN62109-1:2010EN62109-2:2011IEC 62109-1 Ed 1.0IEC 62109-2 Ed 1.0 UL Std No.1741-Second EcitionEN 60529 | | |
| On-Grid | AS/NZS 4777.2:2015VDE-AR-N4105:2011-08DIN V VDE V 0126-1-1/A1:2012:02 IEC61727:2004EN50438:2013ANSI/IEEE 1547.1IEC62116:2011UTE C 15-712-1:2010-07 | | |

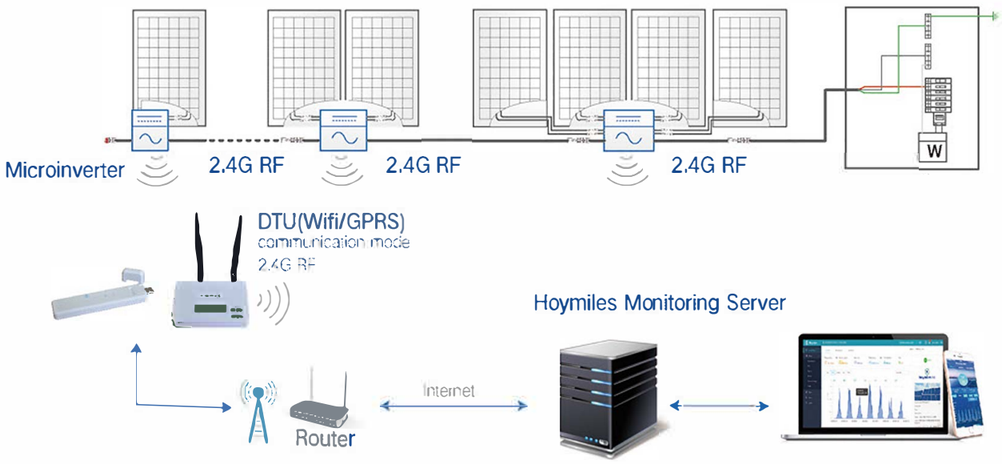
# Microinverter

## Accessories

| Name | Function | Applicable Models |
|---|---|---|
| 1 DC Extension Cable | Provides extended connection between microinverter & PV model; With x1 MC4 male and x1 MC4 Female connector. | MI-1000/1200 |
| 2 AC Extension Cable | To extend cable length; With male and female connector. | ALL |
| 3 AC End Cable-F | Provides connection from the last microinverter to distribution box; One female connector with 2m 12 AWG cable. | ALL |
| 4 AC Female Connector | AC female connector is provided to make AC end cable or AC extension cable. | ALL |

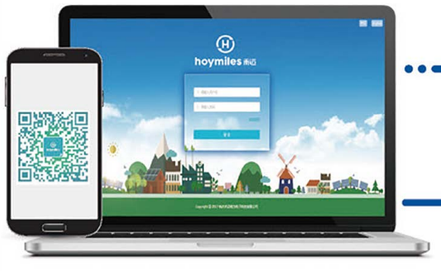
| Name | Function | Applicable Models |
|---|---|---|
| 5 AC Male Connector | AC male connector is provided to make AC end cable or AC extension cable. | ALL |
| 6 AC Female End Cap | IP67 female end cap is provided to seal AC female connector of microinverter. | ALL |
| 7 AC Male End Cap | IP67 male end cap is provided to seal AC male connector of microinverter. | ALL |
| 8 DC Connector Unlock Tool | Used to remove DC connectors. | ALL |
| 9 AC Connector Unlock Tool | Used to unlock AC connectors. | ALL |
| 10 Screw | Install one microinverter on the rail by 2 pcs of M8*25 screws. | ALL |

# Hoymiles 3rd Generation
## Monitoring Platform




## How to set up a Hoymiles monitoring system?

Download and access the Hoymiles monitoring application easily with the use of your Smartphone/Pad; each Hoymiles PV monitoring station will be setup in **3 easy steps**




**01.** Click the List of stations – Create new station

**02.** Input basic information and device association

**03.** Layout design

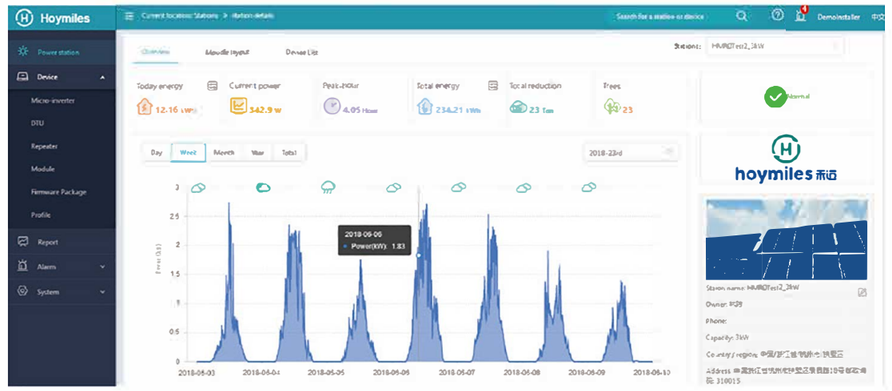
Succeed

**Privacy protection of personal information**
Compliant with GDPR (the General Data Protection Regulation) of EU

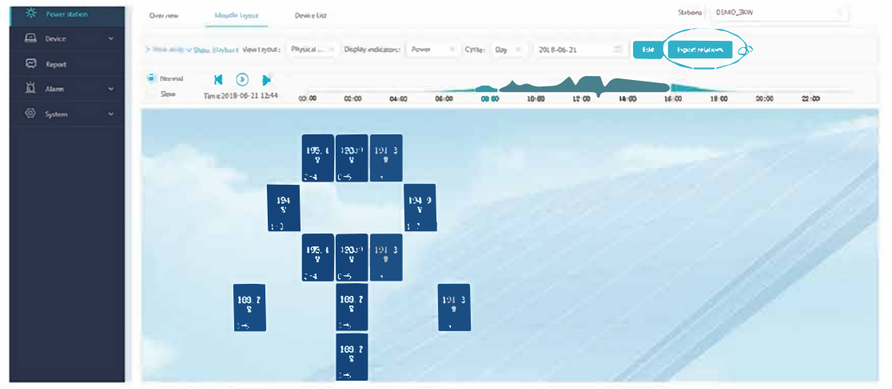


## Key features of Hoymiles new smart monitoring system

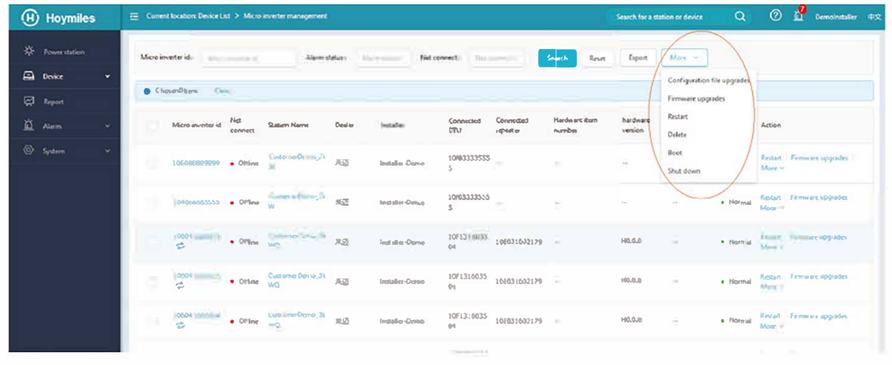
Module-level remote monitoring for microinverter's operating status in real time.




Availability for downloading module-level operating & failure report.

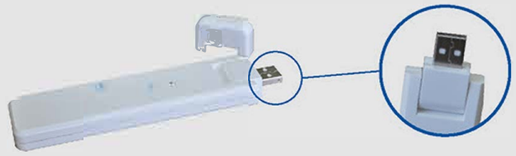



Smart operation for adding, cancelling, checking & revising power station data.



# Wireless Communication for Both Microinverter & Cloud

DTU-G100
DTU-W100



DTU-MI-GPRS

DTU-433

Repeater

| Model | DTU-G100 / DTU-W100 |
|---|---|
| **Communication to Microinverter** | |
| Signal | 2.4G RF |
| Maximum distance (open space) | 100m |
| Monitoring data limit from solar panels | 99* |
| **Communication to Cloud** | |
| Sample rate | Per 15 minutes |
| Signal | GSM (Frequency: 850/900/1800/1900MHz) / Wi-Fi |
| **Power Supply (Adapter)** | |
| Type | Adapter with USB port |
| Input voltage/frequency | 100 to 240V AC / 50 or 60Hz |
| Output voltage/current | 5V / 2A |
| Power consumption | 1.0W(typical), 5W(maximum) |
| **Mechanical Data** | |
| Ambient temperature(°C) | -20 ~+55 |
| Dimensions (W X H X D mm) | 143 X 33 X 12.5 |
| Weight (kG) | 0.1 |
| Mounting system | Direct plugin |
| Indicator light | LED |
| **Others** | |
| Compliance | EN60950 EN62311 EN62479 EN55032 EN61000 EN55035 EN301489 EN300328 EN300440 FCC 15C RSS210 RSS247 |
| Standard warranty | 2 years |



| Model | DTU-MI-GPRS |
|---|---|
| **Communication to Microinverter** | |
| Signal | 2.4G RF |
| Maximum distance (open space) | 150m |
| Monitoring data Limit from solar panels | 99* |
| **Communication to Cloud** | |
| Sample rate | Per 15 minutes |
| Signal | RJ45 Ethernet 10M or 100M / GPRS |
| **Power Supply** | |
| Type | External plug-in adapter |
| Adapter input voltage/frequency | 100-240V AC / 50 or 60 Hz |
| Adapter output voltage/current | 5V / 0.8A |
| Power consumption | 2.5W(typical) / 5W (maximum) |
| **Mechanical Data** | |
| Ambient temperature range(°C) | -20~+55 |
| Dimensions (W X H X D mm) | 149 X 90 X 31 |
| Weight (kG) | 0.22 |
| Mounting system | Wall mounted |
| Display | LCD |
| **Others** | |
| Compliance | EN 60950-1 EN 62311 EN 301 489-1 EN 301 489-3 EN 300 440 EN 55032 EN 55035 EN 61000-3-2 EN 61000-3-3 |
| Standard warranty | 2 years |

| Model | DTU-433 | Repeater |
|---|---|---|
| **Communication** | **To Repeater** | **To Microinverter** |
| Signal | 470M-LORA | 2.4G RF |
| Maximum distance (open space) | 1000m | 150m |
| Monitoring data limit from solar panels | 490* | 99* |
| Sample rate | Per 5 seconds | NA |
| **Communication to Cloud** | | |
| Sample rate | Per 15 minutes | NA |
| Signal | RJ45 Ethernet 10M or 100M | NA |
| **Power Supply** | | |
| Type | External plug-in adapter | 100 - 240V AC / 50 or 60Hz |
| Adapter input voltage/frequency | 100 - 240V AC / 50 or 60Hz | NA |
| Adapter output voltage/current | 5V / 0.8A | 0.5W (typical), 1W (maximum) |
| Power consumption | 2.5W (typical), 5W (maximum) | NA |
| **Mechanical Data** | | |
| Ambient temperature range (°C) | -20 ~ +65 | -40 ~ +65 |
| Dimensions (W X H X D mm) | 149 X 90 X 31 | 145 X 125 X 60 |
| Weight (kG) | 0.22 | 0.35 |
| Mounting system | Wall mounted | NA |
| Display | LCD | NA |
| **Others** | | |
| Compliance | EN 60950-1 EN 62311 EN 301 489-1 EN 301 489-3 EN 300 440 EN 55032 EN 55035 EN 61000-3-2 EN 61000-3-3 | |
| Standard warranty | 2 years | |

*Note: Depends on the installation environment, please refer to the user manual.

# Global Applications

Industrial Project in China 3.6MW

Residential Project in Malaysia 3kW

Floating Project in China 1.5MW

Residential Project in Indonesia 6kW

Residential Project in the Philippines 3kW

## Africa

Industrial Project in South Africa 158kW

## North America

Industrial Project in Cuba 100kW

Residential Project in USA 10kW

## South America

Gas Station Project in Brazil 26kW

Residential Project in Mexico 5kW

## Europe

Commercial Project in Estonia 63.6kW

McDonald's Commercial Project in Ukraine 30kW

Residential Project in Poland 3kW

Residential Project in Sweden 10kW

# Local Service for Distributors/Installers

### System Design

We provide customized service to customers in terms of system design of photovoltaic power station, the implementation, equipment selection, optimization, consultation and other necessary support, which provides our customers an enjoyable experience with our system.

### Hotline Service

Customers can contact our 24/7 hotline in case of any service support required. Our technical staff will assist customer to analyze the condition, propose solutions, and direct the customers in trouble shooting if it's necessary.

### On-site Service

If the problem can't be solved via hotline, engineers will be sent to site in a timely manner to clear the fault, ensure the proper functioning of the equipment within a short time frame.

### Regular Return Visit

Our after-sales team will provide a follow up visit per annum within the warranty. A full test will be performed on the equipment to eliminate any hazards thus to reduce the chance of faults and guarantee the proper functioning of the equipment.

### Customer Training

Hoymiles attaches much attention on customer training to effectively deliver the specialized knowledge to our customers. We provide timely on-site training programs according to varied requirements to share the specialized knowledge and rich experiences. The regular training programs include fault diagnosis, device debugging, equipment maintenance etc.

### Customized Service

Customized service and corresponding agreements are available to meet the specific needs of our customers. The services include system design, technique support to special tests, and warranty service etc.



# Global Service Networks

With the world leading cutting-edge technology of the Microinverter, Hoymiles developed a global market which covers more than 50 countries, including USA, Australia, Germany, France, Netherlands, Italy, Japan, Korea, Brazil, Mexico and India.