



SpolarPV
Easy Invest, More Returns

Balcony PV System

An Accessible and Efficient Way
to Generate Renewable Energy at Home

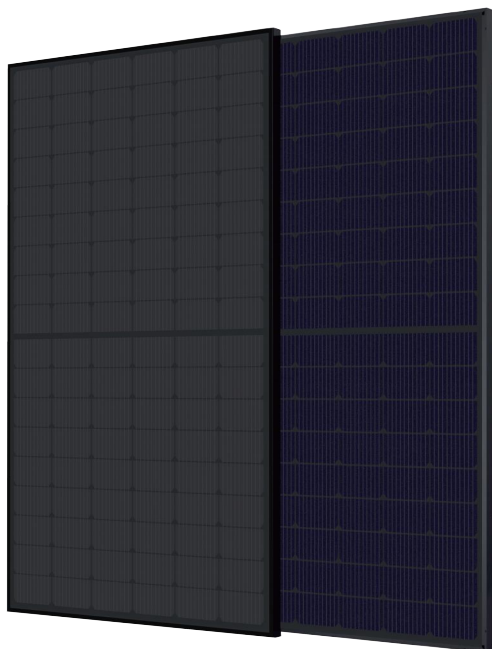


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An Accessible and Efficient Way to Generate Renewable Energy at Home

Balcony PV systems offer a practical and sustainable solution for homeowners looking to generate renewable energy. These systems are designed to be easily installed on balconies or other small outdoor spaces, making them ideal for residential use. By capturing sunlight and converting it into electricity, a balcony PV system allows households to reduce their energy bills, lower reliance on the grid, and contribute to a more sustainable future. With minimal installation requirements and low maintenance, these systems provide an efficient way to harness solar power without the need for extensive rooftop space. Whether you're in a suburban home or a small apartment, a balcony PV system can help you take a step toward energy independence and environmental responsibility.



Module efficiency
22.01 %

Highest power output
430 W



Product warranty



Linear power warranty

SPV430-TM10-108BD



High Efficiency and Lower Temperature Coefficient

Higher power conversion efficiency and lower temperature coefficient benefited from advanced Tunnel Oxide Passivating Contacts (TOPCon) technology.



Anti-reflection

Less than 20% reflectivity with minimum glare.



Good Mechanical Load Performance

Certified to withstand: wind load (2400 Pa), snow load and hail strike(5400 Pa) .



Low Light Performance Resilience

Advanced glass and cell surface texture designs ensure excellent performance in low light environment.



Durability Against Extreme Environmental Conditions

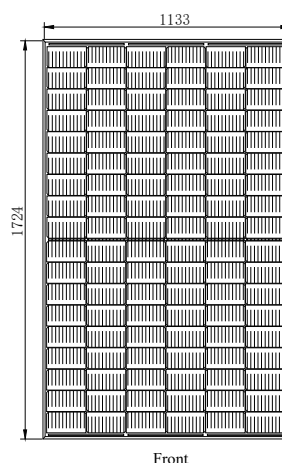
Good performance of Anti-PID, Ammonia and Salt mist certified by 2 PfG 2387/01.18, IEC61716 and IEC61701.

Electrical Characteristics at Standard Test Conditions (STC)

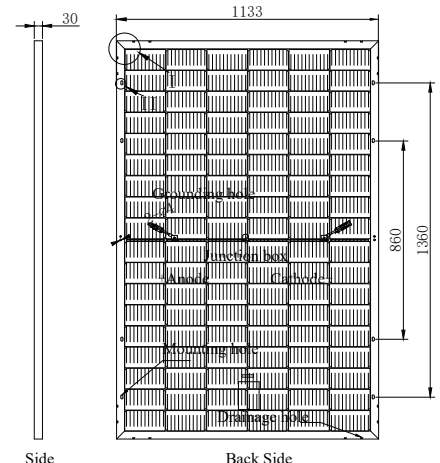
Module Type	SPV425-TM10-108BD	SPV430-TM10-108BD
Maximum Power - Pmax (W)	425	430
Maximum Power Voltage - Vmp (V)	32.26	32.44
Maximum Power Current - Imp (A)	13.18	13.25
Open-circuit Voltage - Voc (V)	38.08	38.26
Short-circuit Current - Isc (A)	14.10	14.17
Module Efficiency STC (%)	21.76 %	22.01 %

Mechanical Characteristics

Cell Type	Mono-crystalline TOPCon 182x91 mm
No. of Cells	108 (6x18)
Dimensions	1724x1133x30 mm
Weight	23.5 kg
Glass	Dual Glass 2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, MC4 Compatible, 3 Bypass Diode
Output Cables	1x4.0 mm ² , Length: 300 mm or Customized Length
Packaging Configuration	74pcs/stack, 962pcs/40'HQContainer (Two pallets=One stack)

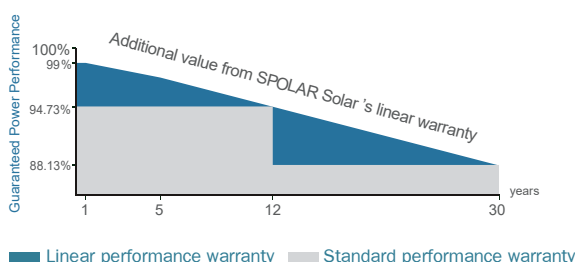


Front



Side

Back Side



EON MI800S-2C | Microinverter



Introduction

Eonland Microinverter, with industry-leading power density, efficiency and reliability, is the result of the cutting-edge technology and craftsmanship that the group has developed in power electronics. Relying on the reliability design results of similar products, Eonland Microinverters take the lead in offering longer standard warranty.

Applications

Residential, Balcony & DIY Solar System

Features

- More compact, lighter, ultra-high power density
- Plug & play, enabling faster, safer and flexible installation
- Mass products comply with EU EMI standards
- High reliability with longer standard warranty
- Safer with rapid shutdown compliance
- 2-in-1 design with 2 independent MPPTs and monitoring



Specifications



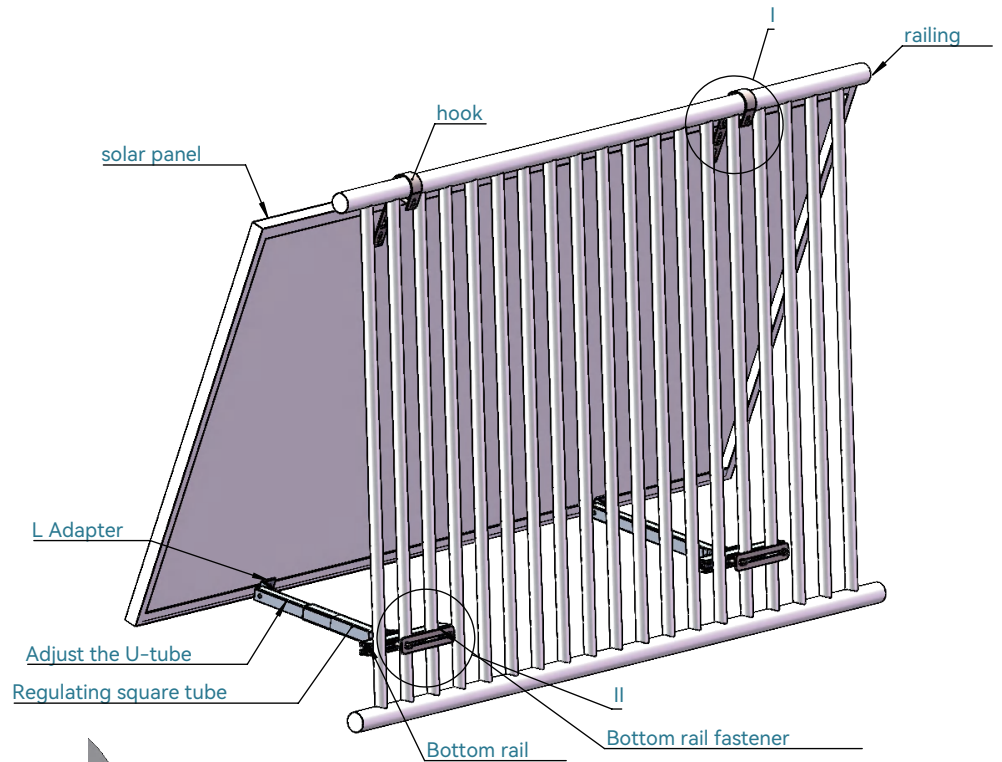
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Model		EON MI800S-2C
Input Data (DC)		
Power range of PV panel	320~590W	
Maximum input voltage	Min.16, Typ.42, Max.60V	
Start-up voltage	Min.18, Typ.19, Max.20V	
MPPT voltage range	Min.16, Typ.42, Max.60V	
Maximum input current	2 x 16A	
Maximum input short circuit current	2 x 22A	
Number of input	2	
Number of MPPT	2	
Output Data (AC)		
Rated output power	800VA	
Output current range	0~3.48A	
Output voltage	Min.183V, Typ. 230V, Max. 264V	
AC frequency range	45~55Hz	
Total harmonic distortion	Typ. < 3%, Max. < 5%	
Power factor (adjustable)	> 0.99 default 0.9 leading...0.9 lagging	
Efficiency		
Peak efficiency	96.6%	
MPPT efficiency	99.8%	
Environmental and Mechanical Characteristics		
Operation temperature	-40 to +65°C	
Ingress protection	IP67	
Cooling	Natural convection	
Nominal Dimensions	228×150×31.3mm	
Nominal weight	2.4kg	
Features		
Communication	Wi-Fi	
Compliance	IEC/EN 62109-1/-2, EN 50549, VDE-AR-N 4105-2018, NB/T 32004: 2018	
Electromagnetic compatibility	IEC/EN 61000-3-2/-3, IEC/EN 61000-6-1/-2/-3/-4	

Photovoltaic Racking

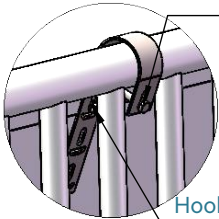


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I

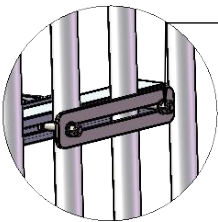
1 : 5 Hook fixing bolt M8*90 external hexagon bolt
With 2 flat, 1 bullet and 1 nut



Hook fixing assembly bolt M8*20 outer hexagon bolt
With 2 flat, 1 bullet and 1 nut

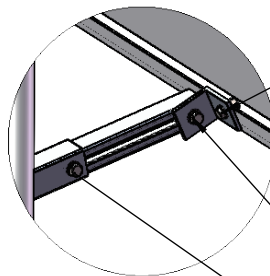
II

1 : 5 Two sets of M8*50 outer hexagon bolts are used to fix
the bottom rail and the bottom rail fasteners
One flat, one bullet and one nut

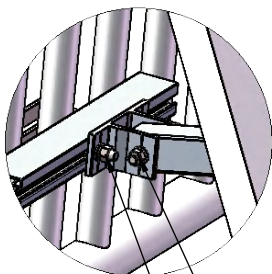


III
1 : 5

- 1 set of M8*20 outer hexagon bolts with 2 flat, 1 bullet and 1 nut (L Adapter for fixing components)
- 1 set of M8*40 outer hexagon bolts with 1 flat, 1 bullet and 1 flange nut (L adapter fixed U-shaped pipe)
- 1 set of M8*20 outer hexagon bolts with 1 flat, 1 bullet and 1 flange nut (Square pipe fixed U-shaped pipe)



IV
1 : 4



Bolts for fixing the adjusting square pipe in the base
M8*60 outer hexagon with 1 flat, 1 bullet and 1 nut

Base bolts for securing the bottom rail
M8*25 outer hexagon with 1 flat, 1 bullet and 1 nut





Balcony Energy Storage System

URA-MESS1 is an energy storage system specially designed for the balcony solar system. The intelligent control system can control the discharge duration and ensure that the energy can be stored simultaneously. The solar power is converted to AC power through a micro-inverter to provide power for your home appliances such as Wi-Fi routers, lighting fixtures, and laptops. The excess energy is intelligently stored in the battery for night use, saving up to 30% of annual electricity bills.

Highlight Features

Expandable Capacity
2240Wh~6720Wh

High Power Performance
1000W PV Input/800W DC Output

Diy Installation
Plug-And-Play

Long Lifespan
Over10 Years Lifecycle 6000+Times



Technical Specification

Battery	
Capacity	2240Wh, expanded to 6720Wh for 3 units
Nominal Voltage	44.8 VDC
Cell Type	LFP
Life Cycles	6000+ @25°C
BMS	OVP, UVP, SOC,SOH, OTP,UTP, etc
DOD	95%
Input	
PV Input Power	500W*2
PV Input Voltage	12-59 VDC
Output	
DC Output Power	400W*2 Max
DC Output Voltage	42~50.4 VDC
DC Output Nominal Voltage	44.8 VDC
Mechanical	
Dimension(W*H*D)(mm)	298*175*353
Net Weight (kg)	18.7
IP Protection	IP65
Environmental	
Operating temperature	-10°C~50°C
Storage temperature	-10°C~55°C