



HAVELLS

enviro
HARNESSING LIGHT. HARVESTING ENERGY.

DUAL MODE MICRO-INVERTER

DMMI 2M 800 W / 4M 1600 W

Dual Mode Micro-Inverter Technology Advantages

The unique advantage of functionality-
Operates in Grid connected and Off-Grid modes
OFF Grid operation without Battery.

MADE
IN
INDIA

- Auto Sensing and configuration- Can work without grid support, DC solar panels will produce AC output when connected to DMMI.

Safety

- No DC series wiring required – All voltages are limited to the panel Voc, No high voltage DC wiring on roof top.

Modularity

- Easily Expandable, Parallel mode operation in OFF grid mode. (up to 4Nos 4M module in parallel and up to 6no's 2M In parallel mode)
- Higher Level of System Reliability (No single point of failure)
- Maximum Power Point Tracking (MPPT) at the Module Level

Higher system efficiency

- Shading effects limited to each module and not to a group of modules.
- Ease of Installation
- Plug and play (Various options available to select)
- No / Minimal wiring changes required.

Ease of monitoring

Communication module in every micro-inverter (Cloud based data monitoring thru web page and mobile APP)

TECHNICAL SPECIFICATION

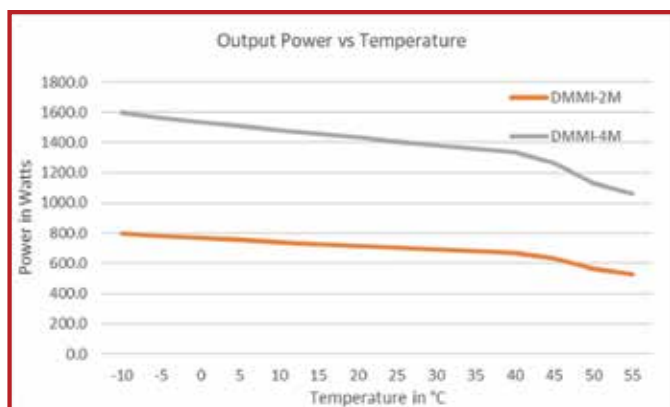
Enviro DMMI Electrical Specification: (Grid-tie & Off-Grid)

Technical Data	DMMI 2M	DMMI 4M
INPUT DATA (DC)		
Commonly used module pairings	450 Wp - 900 Wp	450 Wp - 900 Wp
Module compatibility	60-cell / 72-cell / 144 half cut cell PV modules	60-cell / 72-cell / 144 half cut cell PV modules
Maximum input DC voltage	55 V	55 V
Peak power tracking voltage	30 V - 45 V	30 V - 45 V
Operating range	30 V - 55 V	
Min/Max start voltage	20 V/58 V	
Max DC short circuit current (module Isc)	30 A	30 A
I _{mp} per input	24 A	24 A
Overvoltage class DC port	II	II
DC port backfeed under single fault	0 A	0 A
Number of MPPT	1	2
Max. number of input strings per MPPT	1	2
Number of PV Module inputs	2	4
Max. input current per MPPT	25 A	25 A / 25 A
Max. short-circuit current per MPPT	30 A	30 A / 30 A
OUTPUT DATA (AC)		
Peak output power	800 W	1600 W
Maximum continuous output power	600 W	1100 W
Nominal (L-N) voltage/range ³	230 V (195.5 V - 253 V)	230 V (195.5 V - 253 V)
Operational grid voltage	176 V -270 V	176 V -270 V
Maximum continuous output current	2.6 A * @ 230 V	5.2 A* @ 230 V
Rated output current	3.47 A	6.96 A
Peak Output current	4.2 A	8.4 A
Nominal Grid frequency	50 Hz	50 Hz
Operational frequency range	49 Hz - 51 Hz	
Maximum DMMI's per branch	6	3
Overvoltage class AC port	III	III
AC port backfeed current	0 A	0 A
Power factor (adjustable)	±0.8 adjustable	
ITHD	<5%	<5%
EFFICIENCY		
Peak efficiency	93%	93%
EN 50530 (EU) weighted efficiency	99%	99%
MECHANICAL DATA		
Ambient temperature range	-10 °C to 55 °C	
Relative humidity range	5%~95% (non-condensing)	5%~95% (non-condensing)
Max. operating altitude	<2500 M	<2500 M
Connector type	MC4	MC4
Dimensions (WxHxD)	266 x 207 x 50 mm	362 x 207 x 50 mm
Weight	4.5 Kgs	6.6 Kgs
Cooling	Natural Cooling	Natural Cooling
Approved for wet locations	Yes	Yes
Pollution degree	PD3	PD3
Enclosure	Al dia Cast	Al dia Cast
Environmental category / UV exposure rating	IP 65	IP 65
Isolation	Galvanic Isolation	Galvanic Isolation

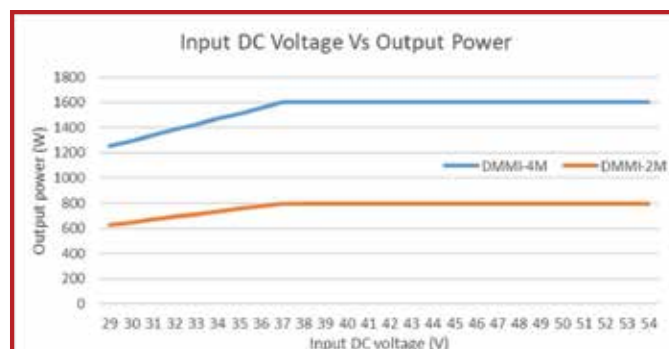
Enviro DMMI Electrical Specification: (Grid-tie & Off-Grid)

Technical Data	DMMI 2M	DMMI 4M
FEATURES		
DC connection	PV+, PV- (MC4 type)	
AC connection	Phase, Neutral, Earth & Inverter Output - 4 pins 230 V 10 AMax	
Communication	Wi-Fi / GSM	Wi-Fi / GSM
Monitoring	Cloud / Mobile App	Cloud / Mobile App
Grid TIE MODE	YES	YES
OFF GRID MODE	YES	YES
Standards Compliance		
Ingress Protection	IP65 - IEC 60529	
Environmental	IEC 60068-2 {1,2,14,30}	
Efficiency	EN50530 - IEC 61683	
Safety Standard	IS16221(Part-2):2015/IEC62109-2:2011	
Utility Interface Characteristics (Applicable for Grid-Tie only)	IEC 61727	
Anti-Islanding (Applicable for Grid-Tie only)	IS16169:2014/IEC62116:2008	
Protections		
DC Input Voltage Out of range	Yes	
Grid Voltage Out of range (Applicable for Grid-Tie only)	Yes	
Inverter Overload	Yes	
AC short-circuit current	Yes	
Temperature out of range	Yes	
Grid Frequency out of range	Yes	

DMMI Output power degradation vs Temperature:



DMMI Output power degradation vs Input DC voltage:





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