



On-grid Single Phase Inverter

ENV 2K/2.5K/3K/3.6K

Benefits

Flexible and Efficient

- Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%
- Max. efficiency of 97.6%, European efficiency of 97.1%
- Super wide input voltage range(50V-500V/550V), supporting system with a minimum of 3 solar panels
- With reduced derating under high temperature, the generating capacity is improved

Convenient Installation

- Transformerless, smaller and lighter up to 7.8kg
- AC output quick connector design, for faster installation

Smart and Easy to Use

- One-button safety setting, easy configuration of all parameters
- Built-in independent RTC chip, supporting data storage of 25 years
- Integrated RS232 / Wi-Fi interfaces, for improved communication
- Free monitoring anytime anywhere
- Local and remote intelligent maintenance by PC, IOS and Android devices
- Responds to power grid dispatching, energy management of micro-grids

Safe and Reliable

- IP65 protection for indoor and outdoor installation
- Aluminum case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Optional built-in high voltage DC switch for safer maintenance and application
- Natural convection for longer life

Technical Data

ENV 2K/2.5K/3K/3.6K

Type	ENV 2K	ENV 2.5K	ENV 3K	ENV 3.6K
Input (DC)				
Max. DC Power [W]	2400	3000	3630	3990
Max. DC Voltage [V]	500	500	550	600
MPPT Voltage range [V]	60-450	60-450	60-500	60-500
Nominal DC Voltage [V]	360			
Start Voltage [V]	70			
Min. DC Voltage [V]	50			
Max. DC Input Current [A]	11			
Number of DC Connection Sets per MPPT	1			
Number of MPPT	1			
DC Switch	optional			
Output (AC)				
Rated AC Power [W]	2000	2500	3000	3680
Max. AC Power [W]	2200	2750	3300	3680
Rated AC Current [A]	8.7	10.9	13.0	16.0
Max. AC Current [A]	10.6	13.3	15.9	17.6
Nominal AC voltage/ range	220V, 230V, 240V/180V-280V			
Grid frequency/ range	50Hz, 60Hz/±5Hz			
Power factor [cos φ]	>0.99 [full load]			
Total Harmonic Distortion [THDi]	< 3%			
Feed-in	1L+N+PE			
Efficiency				
Max. Efficiency	97.4%	97.5%	97.6%	97.6%
Euro Efficiency [at 360Vdc]	96.9%	97.0%	97.1%	97.1%
MPPT Accuracy	>99.5%			
Protection				
Internal Over-voltage Protection	Integrated			
DC Insulation Monitoring	Integrated			
DCI Monitoring	Integrated			
GFCI Monitoring	Integrated			
Grid Monitoring	Integrated			
AC Short Circuit Current Protection	Integrated			
Thermal Protection	Integrated			
Anti-island protection monitoring	AFD			
Interface				
AC Connection	Plug-in connector			
DC Connection	MC4/H4			
LCD / LED Display	LCD (16x2 Characters, Backlight) / LED (3 Lights)			
Display Language	English			
Datalogger & Communication	RS232 (Standard) / Wi-Fi (Optional)			
General Data				
Topology	Transformerless			
Consumption at Night [W]	<0.2			
Consumption at Standby [W]	6			
Operating Temperature Range	-25°C to +60°C (45°C to 60°C with derating)			
Cooling Method	Natural Convection			
Ambient Humidity	0% to 100% Non-condensing			
Altitude	Up to 2000m (without derating)			
Noise [dBA]	<25			
Ingress Protection	IP65 (Indoor & Outdoor Installation)			
Mounting	Rear Panel			
Dimensions (H*W*D) [mm]	354*305*120			
Net Weight [kg]	7.8	8.3	8.4	8.4
Standard Warranty [Year]	5 (Standard) / 10 / 15 / 20 / 25 (Optional)			
Certificates	IEC62109-1/2, IEC61000-6-2/3, IEC61683, IEC60068-2, IEC62116, IEC61717, PEA/MEA, NRS 097-2-1, UTE-C-15-712-1, VDE0126-1-1/A1, VDE-AR-N 4105, AS4777.2, AS4777.3, C-TICK, CQC NB/T 32004, G83-2, NBR 16149, NBR 16150, TF 3.2.1, C10/11			