



On-grid Single Phase Inverter

ENV 4K/5K/6K/8K/10K

Benefits

Flexible and Efficient

- Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%
- Asymmetric dual MPPT which are compatible to all kinds of solar roofs
- Max. efficiency of 98.0%, European efficiency of 97.6%
- Super wide input voltage range(150V-1000V), supporting various solar panels and string designs
- With reduced derating under high temperature, the generating capacity is improved

Convenient Installation

- Transformerless, smaller and lighter
- AC output quick connector design, for faster installation
- Specialized mounting design, easy to install

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 LCD graphical display, showing daily/monthly/yearly generation
- 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
- Integrated with the function of reactive adjusting

Safe and Reliable

- IP65 protection for indoor and outdoor installation
- Aluminum case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Built-in high voltage DC switch for safer maintenance and application
- Built-in convective fans to lower the temperature of core components, prolong life time
- Natural convection for longer life

Technical Data

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Type	ENV 4K	ENV 5K	ENV 6K	ENV 8K	ENV 10K
Input (DC)					
Max. DC Power [W]	4840	6050	7260	9680	11000
Max. DC Voltage [V]			1000		
MPPT Voltage Range [V]			160-900		
Nominal DC Voltage [V]			600		
Start Voltage [V]			180		
Min. DC Voltage [V]			150		
Max. DC Input Current PV1 / PV2 [A]		11/11		22/11	
Number of MPPT			2		
Number of DC Connection Sets per MPPT		1/1		2/1	
DC Switch			Integrated		
Output (AC)					
Rated AC Power [VA] (@230V,50Hz)	4000	5000	6000	8000	10000
Max. AC Power [W]	4400	5500	6600	8800	10000
Rated AC Current [A]	5.8	7.2	8.7	11.6	14.5
Max. AC Current [A]	7.0	8.8	10.5	14.1	16.1
Nominal AC Voltage / Range		3/N/PE, 220/380V, 230/400V, 240/415V; 180V-280V/312V-485V			
Grid frequency / Range		50Hz, 60Hz / 44Hz-55Hz, 54-65Hz			
Power factor, Adjustable [cos φ]		0.9 leading~0.9 lagging			
Total Harmonic Distortion [THDi]		< 3% (at nominal power)			
Feed-in		3L+N+PE			
Efficiency					
Max. Efficiency	97.8%	97.8%	97.8%	98.0%	98.0%
Euro Efficiency (at 600Vdc)	97.0%	97.2%	97.4%	97.5%	97.6%
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					
DC Connection			MC4/H4		
AC Connection			Plug-in connector		
LCD Display		3.5 inch Graphic LCD Display, Backlight, Inverter Parameter and Data Display			
Display Language		English			
Datalogger & Communication		1*RS485 / 1*RS232 / Wi-Fi (Optional)			
General Data					
Topology"		Transformerless			
Consumption at Night [W]		<0.6			
Consumption at Standby [W]		<10			
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 power derating)			
Noise [dBA]		<29			
Ingress Protection		IP65 (Indoor & Outdoor Installation)			
Mounting		Rear Panel			
Dimensions (H*W*D) [mm]		530*355*190		530*355*200	
Net Weight [kg]		20.5		23.0	
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				