

On-grid Single Phase Inverter

ENV 3K-E/4K-E/5K-E/6K-E

Benefits

Flexible and Efficient

- Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%
- · Asymmetric dual MPPT that are compatible with all types of solar arrays
- Max. efficiency of 97.6%, European efficiency of 97.2%
- Super wide input voltage range(80V-600V), 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 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
- Optional built-in high voltage DC switch for safer maintenance and application
- Natural convection for longer life

Technical Data

	IV 3K-E/4K-E/5K-E/6K-E			
Туре	ENV 3K-E	ENV 4K-E	ENV 5K-E	ENV 6K-E
nput (DC)				
Max. DC Power [W]	3630	4840	6050	6600
Max. DC Voltage [V]		60	00	
MPPT Voltage range [V]	90-550			
Nominal DC Voltage [V]	360			
tart Voltage [V]	100			
/lin. DC Voltage [V]	80			
Max. DC Input Current PV1 / PV2 [A]	11/11			
Number of DC Connection Sets per MPPT	1/1			
Number of MPPT	2			
OC Switch	Optional			
Output (AC)				
Rated AC Power [VA] (@230V,50Hz)	3000	3680 ¹ /4000	4600²/5000	6000
/lax. AC Power [W]	3300	3680/4400	4600/5500	6000
Rated AC Current [A]	13.0	16.0/17.4	20.0/21.7	26.1
Max. AC Current [A]	15.9	16.0/21.0	22.2/26.7	28.7
Nominal AC voltage/ range		220V, 230V, 24		
Grid frequency/ range	50Hz, 60Hz/±5Hz			
Power factor [cos φ]	>0.99 [full load]	,	0.9 leading~0.9 lagg	ing
otal Harmonic Distortion [THDi]		< 3	3%	
eed-in	1L+N+PE			
fficiency				
Лах. Efficiency	97.4%	97.5%	97.6%	97.9%
uro Efficiency [at 360Vdc]	97.0%	97.1%	97.2%	97.5%
MPPT Accuracy	37.070		9.5%	37.370
Protection		, ,		
nternal Over-voltage Protection		Inter	rated	
OC Insulation Monitoring	Integrated Integrated			
OCI Monitoring	Integrated			
GFCI Monitoring	Integrated			
Grid Monitoring	Integrated			
AC Short Circuit Current Protection	Integrated			
hermal Protection	Integrated			
Anti-island protection monitoring	AFD			
nterface		^		
AC Connection		Plug-in o	onnector	
OC Connection	Plug-in connector MC4/H4			
CD / LED Display	LCD (16x2 Characters, Backlight) / LED (3 Lights)			
Display Language	English			
Datalogger & Communication	RS232 (Standard) / Wi-Fi (Optional)			
General Data		NJ2J2 (Standard)	, with (Optional)	
opology		Transfo	rmerless	
Consumption at Night [W]	Transformerless < 0.2			
Consumption at Night [W]	6			
Operating Temperature Range				
Cooling Method	-25°C to +60°C (45°C to 60°C with derating) Natural Convection			
mbient Humidity	0% to 100% Non-condensing			
loise (dRA)	Up to 2000m (without derating)			
loise [dBA]	<25 ID65 (Indoor % Outdoor Installation)			
ngress Protection	IP65 (Indoor & Outdoor Installation)			
Mounting	Rear Panel			

454*355*150

14.8

5 (Standard) / 10 / 15 / 20 / 25 (Optional)

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,

454*355*162

Dimensions (H*W*D) [mm]

Net Weight [kg]

Warranty [Year]

Certificates