



Warranty

HYBRID INVERTER



High Performance



High Efficiency

EVVO

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# EVH-3P-10kW

## Three Phase Hybrid Inverter

Technical Data		EVH-3P-10kW
Battery Input Data	Battery Type	Li-Ion
	Battery Voltage Range [V]	180-600
	Max. Charging Current [A]	25
	Max. Discharging Current [A]	25
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	Max. DC Input Power [W]	13000
	Max. DC Input Voltage [V]*	1000
	MPPT Range [V]	200-850
	Start-up Voltage [V]	180
	Nominal DC Input Voltage [V]	620
	Max. Input Current [A]	12.5/12.5
	Max. Short Current [A]	15.2/15.2
	No. of MPP Trackers	2
	No. of Strings per MPP Tracker	1/1
AC Output Data [On-grid]	Nominal Apparent Power Output to Utility Grid [VA]	10000
	Max. Apparent Power Output to Utility Grid [VA]**	11000
	Max. Apparent Power from Utility Grid [VA]	15000
	Nominal Output Voltage [V]	400/380, 3L/N/PE
	Nominal Output Frequency [Hz]	50/60
	Max. AC Current Output to Utility Grid [A]	16.5
	Max. AC Current from Utility Grid [A]	22.7
	Output Power Factor	-1 [Adjustable from 0.8 leading to 0.8 lagging]
	Output THDi (@Nominal Output)	<3%
AC Output Data [Back-up]	Max. Output Apparent Power [VA]	10000
	Peak Output Apparent Power [VA]***	16500, 60sec
	Max. Output Current [A]	16.5
	Nominal Output Voltage [V]	400/380
	Nominal Output Frequency [Hz]	50/60
	Output THDv (@Linear Load)	<3%
Efficiency	Max. Efficiency	98.2%
	Max. Battery to Load Efficiency	97.5%
	European Efficiency	97.5%
Protection	Anti-Islanding Protection	Integrated
	PV String Input Reverse Polarity Protection	Integrated
	Insulation Resistor Detection	Integrated
	Residual Current Monitoring Unit	Integrated
	Output Over Current Protection	Integrated
	Output Short Protection	Integrated
	Battery Input Reverse Polarity Protection	Integrated
	Output Over Voltage Protection	Integrated
General Data	Operating Temperature Range [°C]	-35-60
	Relative Humidity	0-95%
	Operating Altitude [m]	≤4000
	Cooling	Nature Convection
	Noise [dB]	<30
	User Interface	LED & APP
	Communication with BMS	CAN
	Communication with Meter	RS485
	Communication with EMS	RS485 (Insulated)
	Communication with Portal	Wi-Fi
	Weight [kg]	24
	Size [Width*Height*Depth mm]	516*415*180
	Mounting	Wall Bracket
	Protection Degree	IP65
	Standby Self-Consumption [W]****	<15
	Topology	Transformerless
Standards	Grid Regulation	CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G98 ; G100
	Safety Regulation	IEC62109-1&-2, IEC62040-1
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29

\*: Maximum operating voltage is 950V. \*\*: According to local grid regulation.

\*\*\*: Can be reached only if PV and battery power are enough. \*\*\*\*: No back-up output.

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