



1-PHASE GRID-TIE PV INVERTER

FEATURES

- VDE-AR-N 4105 & VDE 0126-1-1/A1
- >97% Conversion Efficiency
- Integrated DC Switch
- IP65, Die-casting Housing
- Graphic Data Logger
- Interface for Ripple Control Receiver
- 12kg ONLY (ST3000)
- Integrated Webserver
- 2 Independent MPP Trackers (ST5000)
- Automatic Firmware Update
- Ethernet & Optional Wi-Fi
- Cloud Web Portal
- Optional Programmable (Auxiliary) AC-Switch



SPECIFICATION

Model		ST3000	ST4000	ST5000
-------	--	--------	--------	--------

Input (DC)

Max. Power per Tracker	W	3300	4500	3400
MPPT Range ¹	V	315 ~ 500	230 ~ 400	290 ~ 500
Minimum MPP Voltage	V	150	150	150
Max. DC Voltage	V	580	450	580
Max. Current	A	10	18	9 x 2
MPP Tracker No.		1	1	2

Output (AC)

Rated Power	W	3000	4000	5000/4600 ²
Max. Power	VA/W	3000	4000	5000/4600 ²
Nominal Voltage	V	230		
Voltage Range	V	184 ~ 264.5		
Nominal Frequency	Hz	50		
Max. Current	A	14.3	19	23.8 / 21.9 ²
Power Factor	cos ϕ	Adjustable, -0.8 ~ +0.8		

General

Max./Euro Efficiency	%	97 / 96	97 / 96	97 / 96
Tempe. Range	°C	-20 ~ 55		
Cooling		Convection		
Protection Class (IEC 60529)		IP65		
Humidity	%	0 ~ 100		

Communication and Mechanical

Display		Graphic Icon LCD		
RCR Interface		Yes, programmable		
Communication Interface		Ethernet, RS485 and optional Wi-Fi		
Dimension (W / H / D)	mm	330 / 375 / 196	330 / 485 / 190	418 / 485 / 190
Weight	kg	12	16	22
DC-Switch		Integrated		

Certificate & Regulation

Grid Connection		VDE-AR-N 4105, VDE0126-1-1/A1		
Safety		IEC 62109-1 & IEC 62109-2		
EMC		EN61000-3-2, EN61000-3-3	EN61000-3-11, EN61000-3-12	
		EN61000-6-2, EN61000-6-3		

*1. For rated AC power 2. 4600W for VDE-AR-N 4105 3. Specifications are subject to changed without prior notice