INVERTER

OELMAIER Technology

String inverter series PAC-S

Including boost converter for high flexibility

Quality:

The PAC-S inverter series consists of highest quality components. Intelligent design of the thermal management increases the reliability of the components, which combined with the most stringent certified quality standards, guarantees a long life span.

Service:

The display provides clear information about the operation status as well as the yield of the PV system and is designed for ease of installation and quick start-up.

Performance:

The inverter series PAC-S has an outstanding robustness against frequently occurring distortions in the electric mains and therefore guarantees smooth power generation.

The holistic MPP tracking process combines the advantages of several proven procedures. This enables optimal electricity generation and the highest possible solar yields.

The transformer less inverters by Oelmaier Technology, with capacities of 1, 1.5, 2, 3, 4, 5 or 7kW, are the result of long-term experience within power electronics and the innovative expertise of Oelmaier Technology. The S-series inverters own their enlarged input voltage range to a boost converter, creating a high degree of flexibility in the PV modules and strings configuration.

The superior quality standard is reflected in our 8-year product guarantee which can be extended to 12 or even 20 years!

~ 8 Years Standard Product Warranty (Can be extended to 12 or 20 years)

~ Extended MPP Voltage Range

 Suitable For Almost Any Panel Configuration

~ Highest Efficiency >95%

~ IP65 Rating

~ Intergrated DC Isolation Switch (≥2kW inverters)





Technical Data - String inverter series TAC-B **



The PAC-S string inverter series has superior output performance due to an intelligent mix of yield relevant characteristics. The intuitive operation of the graphics display, compact design, as well as connection options, enables simple and fast installation. Protection type IP65 as well as the optionally available cooling system coolPAC allow the use of the inverter even under the most difficult environmental conditions. A comprehensive range of our logPAC monitoring systems supported by fast and exact software for systems dimensioning (PACdimension) as well as exceptional service completes the offer of Oelmaier Technology.

Inverter Type	PAC TINY 1	PAC TINY 1.5	PAC 2 S	PAC 3 S	PAC 4 S	PAC 5 S	PAC 7
Input Data (DC)							
Nominal DC power (PDCnom)	1.4 kW	2.1 kW	2.2 kW	3.2 kW	4.3 kW	5.8 W / 4.9 kW *	7.3 kW / 4.9 kW *
Max. PV power (PPVmax)			2.8 kW	4.2 kW	5.6 kW	6.4 kW	8.0 kW
Nominal DC voltage	2	00 V			350 V		
Max. input voltage (VDCmax)	440 V DC		800 V CC				
MPP voltage range (VDCmpp)		330 V DC		200 – 650 V DC			330 - 650 V DC
Max. input current (IDCmax)	16 A	16 A	11 A				22 A
Output Data (AC)	ION	191	110	100	and the same of th	18A/15A*	227
Nominal AC power (PACnom)	1.0 kW	1.5 KW	2.0 kW	3.0 kW	4.000 kW	5.5 kW / 4.6 kW *	7.0 kW *
Max. AC power (PACmax)	1.25 kW	1.85 kW	2.2 kW	3.3 kW	4.400 kW	6.0 kW / 5.06 kW *	7.5 kW *
Max. output current (ICAmax)	6.5 A	9.8 A	12 A	18 A	24 A	27.5 A	41 A
Mains voltage (Vac)	0.3 A	3.0A	128	184 – 264 V	244	27.5 A	418
Mains voitage (vac) Mains frequency (fCA)	47.5 – 50.2 Hz						
to the state of							
Power factor (cos o)	about 1.0						
Distortion factor	< 3% across the whole range						
Emigency			8-11		100 1		
Specifics	00.10	07/4 0/		ss versus grid distortions, very exact N			00.04
Max. efficiency (η max)	97.4 %	97.4 %	95.6 %	95.7 %	96.1 %	96.1 %	96.6 %
European efficiency (η max)	96.8 %	96.8 %	94.3 %	94.8 %	95.0 %	95.4 %	95.8 %
Minimum feed-in performance	15 W 30 W						
Operating consumption	<2W <8W						
Stand-by consumption	0W <3W						
General Data							
Warranty	8 years (extendable to 12 or 20 years)						
Dimensions (W x H x D)		0 mm x 150 mm	250 mm x 550 mm x 187 mm 250 mm x 222 mm				
Weight	13 kg	14 kg	21 kg	21 kg	26 kg	26 kg	26 kg
Noise emissions	< 35 dB						
Ambient temperature	- 20°C to + 70°C						
Nominal power up to an ambient temperature of	+ 35°C (+ 50°C optional with coolPAC**)						
Topology	Transformeriess, 17kHz IGBT full bridge technology						
Cooling concept	Convection (optional coolPAC**)						
Display	Graphics display						
Operation	5 touch buttons						
Connections							
Max. number of strings		1			2		
DC connection	MC IV connector and screw clamp						
AC connection	Screw clamp						
Fault signal contact	Screw clamp, potential-free, 250 VAC, 10 A						
Communication	RS 485 (15 pin SUB-D connector)						
S0 pulse output	Screw clamp						
Protectors							
Overload protection				Varistors			
Temperature monitoring	Yes						
Protection type	1965 1965						
DC reverse polarity protection	Yes						
AC short-circuit resistance	Yes						
Ground leakage protection monitoring	Yes						
	3-phase monitoring according to VDE 0126-1-1 / ENS / Italy						
Natural monitoring	All-current sensitive residual current circuit-breaker						
Network monitoring Residual current monitoring			All au	rrant cancitiva racidual current aissult	brankar		