

# Inverter

## String inverter series PAC above-average yield

### Quality:

The design of the inverter series PAC, the use of high-quality components, the component-saving thermal management as well as the highest certified quality standards guarantee a long life time of the inverters.

### Service:

The display clearly informs about the status as well as the yield of the PV system and allows the installer a quick start up.

### Performance:

The inverter series PAC has an outstanding robustness against frequently occurring distortions in the electric mains and therefore guarantees a smooth power generation. The holistic MPP tracking procedure combines the advantages of several proven procedures. This enables optimal electricity generation and highest possible solar yields.



The transformerless inverters by Oelmaier Technology with performance of 2, 3, 4, 5 or 7kW are the result of long-term experience in power electronics and the innovative power of Oelmaier Technology.

The above-average quality standard is shown in the fact that the 8-year guarantee can be extended to 12 or even 20 years.



## Technical Data string inverter series PAC

The string inverter series PAC has special kWh performance due to an intelligent mix of yield-relevant characteristics. The intuitive operation of the graphics display, the compact design as well as connection options enables simple installation. Protection type IP 44 as well as the optionally available cooling system

coolPAC allow the use of the inverter even under most difficult environmental conditions. A comprehensive range of monitoring systems (logPAC), fast and exact software for systems dimensioning (PACdimension) as well as exceptional service complete the offer of Oelmaier Technology.

Inverter type	PAC 2	PAC 3	PAC 4	PAC 5	PAC 7
<b>Input Data (DC)</b>					
Nominal DC power ( $P_{DCnom}$ )	2.200 W	3.200 W	4.300 W	5.800 W / 4.900 W *	7.300 W / 4.900 W *
Max. PV power ( $P_{PVmax}$ )	2.800 W	4.200 W	5.600 W	6.400 W	8.000 W
Max. input voltage ( $V_{DCmax}$ )	800 V DC				
MPP voltage range ( $V_{DCmpp}$ )	330 – 650 V DC				
Max. input current ( $I_{DCmax}$ )	11,0 A	18,0 A	17,0 A	18,0 A / 15,0 A *	22,0 A
<b>Output Data (AC)</b>					
Nominal AC power ( $P_{ACnom}$ )	2.000 W	3.000 W	4.000 W	5.500 W / 4.600 W *	7.000 W
Max. AC power ( $P_{ACmax}$ )	2.200 W	3.300 W	4.400 W	6.000 W / 5.060 W *	7.500 W
Max. output current ( $I_{CAmax}$ )	12,0 A	18,0 A	24,0 A	27,5 A	41,0 A
Mains voltage ( $V_{ac}$ )	184 – 265 V				
Mains frequency ( $f_{cA}$ )	47,5 – 50,2 Hz				
Power factor ( $\cos \phi$ )	about 1,0				
Distortion factor	< 3% across the whole range				
<b>Efficiency</b>					
Specifics	Robustness versus grid distortions, very exact MPP tracking				
Max. efficiency ( $\eta_{max}$ )	95,6 %	95,7 %	96,6 %	96,6 %	96,6 %
European efficiency ( $\eta_{max}$ )	94,3 %	94,8 %	95,8 %	95,8 %	95,8 %
Minimum feed-in performance	30 W				
Installation consumption	< 8 W				
Stand-by consumption	< 3 W				
<b>General Data</b>					
Warranty	8 years (extendable to 12 or 20 years)				
Dimensions (w x h x d)	250 mm x 550 mm x 187 mm		250 mm x 550 mm x 222 mm		
Weight	21 kg	21 kg	26 kg	26 kg	26 kg
Noise emissions	< 35 dB				
Ambient temperature	- 20 ... + 70°C				
Nominal power up to an ambient temperature of	+ 35°C (+ 50°C optional with coolPAC**)				
Topology	Transformerless, IGBT full bridge technology				
Cooling concept	Convection (optional coolPAC**)				
Display	Graphics display				
Operation	5 touch buttons				
<b>Connections</b>					
Max. number of strings	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)				
SO pulse output	Screw clamp				
<b>Protectors</b>					
Overload protection	Varistors				
Temperature monitoring	Yes				
Protection type	IP 44 / optional IP 65				
DC reverse polarity protection	Yes				
AC short-circuit resistance	Yes				
Ground leakage protection monitoring	Yes				
Network monitoring	3-phase monitoring according to VDE 0126-1-1 / ENS / Italy				
Residual current monitoring	All-current sensitive residual current circuit-breaker				
* Attention, please indicate the current EVU regulations. Power limit for unbalanced network loads. Delivery Status.					
** Optional available cooling system for the PAC string inverter.					