

# PACTower

## High power string inverter rack PACTower for high reliability with above-average yield

### Quick installation:

The compact multi string inverter racks of the PACTower series are featured by their high reliability and their very fast "on site" installation.

By using our approved PAC and PAC-S string inverter family we can guarantee high reliability as well as a very good system availability.

### Power packs:

The integrated, very efficient cooling system provides a constant power supply without power derating due to overheating.

All electrical connections are performed in the approved plug in technology and ensure that „in case of emergencies“ a very quick and easy exchange of individual devices without additional assembly tools such as cranes, forklifts, etc.

The PACTower racks are completely electrically pre-fitted and can be supplied with an optional integrated data monitoring system.

### Thin film suitable:

Oelmaier Technology offers the PACTower racks optional with a high efficient and integrated central transformer. This allows the integrated and transformerless PAC devices a conjunction with all available thin film modules on the market.



As a standard design, we actual offer the model PACTower 33 with 33kW rated output and PACTower 44 with 44kW rated output (depending on the inverter assembly). Any further string inverter combinations in the PACTower systems are feasible by adequate selection and application of our PAC string inverters. The rack offers a compact space from 1 up to 8 PAC string inverters and is electrically completely prepared.



# Technical Data PACTower

Inverter type	PACTower 33	PACTower 44
<b>Input Data (DC)</b>		
Nominal DC power	30,3 kW	40,4 kW
Max. PV power	39,6 kW	52,8 kW
Max. input voltage	750 V	
MPP voltage range	(200V *) 330 – 650 V	
Max. input current	111,6 A	148,8 A
<b>Output Data (AC)</b>		
Nominal AC power	34,5 kW	46,0 kW
Max. AC power	36,0 kW	48,0 kW
Nominal current	3 x 50 A	75 A / 75 A / 50 A
Mains voltage	184 – 264 V	
Mains frequency	47,5 – 50,2 Hz	
Power factor	ca. 1,0	
Distortion factor	< 3% across the whole range	
<b>Efficiency</b>		
Specifics	Robustness versus grid distortions, very exact MPP tracking	
Max. efficiency	96,6 %	
European efficiency	95,8 %	
Minimum feed-in performance	30 W	
Stand-by consumption	< 18 W	< 24 W
<b>General Data</b>		
Warranty	8 years (extendable to 12 or 20 years)	
Dimensions (w x h x d)	1970 mm x 1000 mm x 1000 mm (fully fitted)	
Weight	341 kg	393 kg
Noise emissions	< 35 dB	
Ambient temperature	- 20 ... + 50°C	
Nominal power up to an ambient temperature of	+ 50°C	
Topology	Transformerless**, IGBT full bridge technology	
Cooling concept	Forced cooling	
Display	Graphics display	
Operation	5 touch buttons	
Monitoring	prearranged	
MPP adaptation level	0,999	
<b>Connections</b>		
Max. number of strings	6	
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	> 75° C temperature-dependent power adjustment	
Protection type	IP 54 according to EN60529 (higher protection available)	
DC reverse polarity protection	Yes	
AC short-circuit resistance	Yes	
Ground leakage protection monitoring	Yes	
Network monitoring	3-phase monitoring	
Residual current monitoring	All-current sensitive residual current circuit-breaker	
*With PAC-S string inverter in use. **Optional with central transformer.		

**Standard version PACTower 33: Equipped with 6 x PAC5, Standard version PACTower 44: Equipped with 8 x PAC5.**

**On request, these standard versions can be equipped with the following inverters:**

**PAC2 / PAC3 / PAC4 / PAC5 / PAC2 S / PAC3 S / PAC4 S / PAC5 S**

**Please refer for technical data to the data sheet of our string inverters.**

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