

Tenka Power Center 1000 MAX - Single Phase Inverter



Tenka Power Center 1000 MAX - Single Phase Inverter - Main benefits



Easy commissioning

Easy commissioning with Tenka Power Cloud App



Monitoring with App

Full monitoring with Tenka Power Cloud App



150% oversizing

150% PV array oversizing for higher yields



Arc fault circuit interruptor

AFCI protection reduces fire risk resulting from DC arcs.



Maximum design flexibility

up to 3 MPPTs for versatility in PV system design and layout.



Discreet and silent

Natural air-cooling ensures discreet and silent operation

Tenka Power Center 1000 MAX

3 KW

3.68 KW

4 KW

Input (DC)			
Max. PV array power	5500 Wp STC	6180 Wp STC	6500 Wp STC
Max. input voltage	550 V		
MPP voltage range / rated input voltage	40 V to 530 V / 380 V		
Min. input voltage / start voltage	40 V / 50 V		
No. of independent MPPT inputs / strings per MPPT input	2 / 1		
Max. input current / max. power per MPPT tracker	16 A		
Max. short circuit current per MPPT tracker	20 A		
Battery input			
Nominal battery voltage	48 V / 51.2 V		
Battery voltage range	40 V to 60 V		
Max. charging / discharging power	5000 W / 5000 W		
Max. charging current / Max. discharging current	100 A / 100 A		
Battery type	LiFePO4		
AC input			
Rated grid voltage	a.c. 230 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated apperent power	6000 VA		
Max. input apperent from grid	6000 VA		
Rated input current from grid	a.c. 26.1 A		
Max. input current from grid	a.c. 27.3 A		
AC output			
AC voltage range / Nominal AC voltage	180 V to 280 V / 230 V		
Rated AC grid frequency	50 Hz / 60 Hz		
Rated apparent power	3000 W	3800 W	4000 W
Max. apparent power	3000 VA	3800 VA	4000 VA
Rated grid output current (@230 V)	13.1 A	16.0 A	17.4 A
Max. grid output current	13.6 A	16.0 A	18.2 A
EPS Output			
Nominal output voltage	230 V		
Nominal output frequency	50 Hz / 60 Hz		
Rated apparent power	5000 VA		
Max. output apperent power	5000 VA		
Peak output apperent power	7500 VA, 10s		
Rated current (@230V)	21.7 A		
Max. output current	21.7 A		
Max. Switch time	< 10 ms		
Output THDi (@linear load)	<3 %		
Efficiency			
MPPT efficiency	99.9 %		
Euro efficiency / Max. efficiency	97.0 % / 97.6 %		
Max. battery to load efficiency	94.7 %		
Features			
User interface	LED & App		
BMS interface	Rs485 / CAN		
Smart meter interface	Rs485		
Internet communication interfaces	Wifi stick / LAN		
Integrated power control / export power control	● / ●		

● Standard features ○ Optional features

¹ For VDE-AR-N4105, Smax=Sn=4600VA, Pn=4600W

² For AS/NZS4777.2, Iac max=21.7A

³ Including but not limited to the listed models, please check the website@solplanet for more compatible models

All information is subject to change | Version: Jan 2024

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3 kW

3.68 kW

4 kW

Safety protection	
DC-side disconnection device	●
PV string- / Battery input reverse polarity protection	● / ●
All-pole sensitive residual current monitoring unit	●
Anti-islanding protection	●
Ground fault protection	●
AC output over current / short circuit current	● / ●
AC over voltage protection	●
Protection class (IEC 62109-1) / overvoltage cat. (IEC 62109-1)	●
General data	
Power factor at rated power / adjustable displacement	≥0.99 / 0.8 leading to 0.8 lagging
Dimensions (W / H / D)	483 mm / 455 mm / 193.6 mm
Weight	25.1 kg
Operating temperature range	-25 °C ... +60 °C
Noise emissions (typical)	30 dB(A)
Standby consumption	<10W
Cooling concept	Natural convection
Degree of protection (as per IEC 60529)	Ip66
Climatic category (according to IEC 60721-3-4)	4K4H
Max. permissible value for relative humidity (non-condensing)	100 %
Max. operating altitude	4000 m (>3000m power derating)

● Standard features ○ Optional features

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5 kW

6 kW

8 kW

Input (DC)			
Max. PV array power	7500 Wp STC	9000 Wp STC	TBD
Max. input voltage	550 V		TBD
MPP voltage range / rated input voltage	40 V to 530 V / 380 V		TBD
Min. input voltage / start voltage	40 V / 50 V		TBD
No. of independent MPPT inputs / strings per MPPT input	2 / 1		TBD
Max. input current / max. power per MPPT tracker	16 A		TBD
Max. short circuit current per MPPT tracker	20 A		TBD
Battery input			
Nominal battery voltage	48 V / 51.2 V		TBD
Battery voltage range	40 V to 60 V		TBD
Max. charging / discharging power	5000 W / 5000 W		TBD
Max. charging current / Max. discharging current	100 A / 100 A		TBD
Battery type	LiFePO4		TBD
AC input			
Rated grid voltage	a.c. 230 V		TBD
Rated grid frequency	50 Hz / 60 Hz		TBD
Rated apperent power	6000 VA		TBD
Max. input apperent from grid	6000 VA		TBD
Rated input current from grid	a.c. 26.1 A		TBD
Max. input current from grid	a.c. 27.3 A		TBD
AC output			
AC voltage range / Nominal AC voltage	180 V to 280 V / 230 V		TBD
Rated AC grid frequency	50 Hz / 60 Hz		TBD
Rated apparent power	5000 W	6000 W	TBD
Max. apparent power	5000 VA	6000 VA	TBD
Rated grid output current (@230 V)	21.7 A	26.1 A	TBD
Max. grid output current	22.7 A	27.3 A	TBD
EPS Output			
Nominal output voltage	230 V		TBD
Nominal output frequency	50 Hz / 60 Hz		TBD
Rated apparent power	5000 VA		TBD
Max. output apperent power	5000 VA		TBD
Peak output apperent power	7500 VA, 10s		TBD
Rated current (@230V)	21.7 A		TBD
Max. output current	21.7 A		TBD
Max. Switch time	< 10 ms		TBD
Output THDi (@linear load)	<3 %		TBD
Efficiency			
MPPT efficiency	99.9 %		TBD
Euro efficiency / Max. efficiency	97.0 % / 97.6 %		TBD
Max. battery to load efficiency	94.7 %		TBD
Features			
User interface	LED & App		TBD
BMS interface	Rs485 / CAN		TBD
Smart meter interface	Rs485		TBD
Internet communication interfaces	Wifi stick / LAN		TBD
Integrated power control / export power control	● / ●		TBD

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5 kW

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	5 kW	6 kW	8 kW
Safety protection			
DC-side disconnection device	●		TBD
PV string- / Battery input reverse polarity protection	● / ●		TBD
All-pole sensitive residual current monitoring unit	●		TBD
Anti-islanding protection	●		TBD
Ground fault protection	●		TBD
AC output over current / short circuit current	● / ●		TBD
AC over voltage protection	●		TBD
Protection class (IEC 62109-1) / overvoltage cat. (IEC 62109-1)	●		TBD
General data			
Power factor at rated power / adjustable displacement	≥0.99 / 0.8 leading to 0.8 lagging		TBD
Dimensions (W / H / D)	483 mm / 455 mm / 193.6 mm		TBD
Weight	25.1 kg		TBD
Operating temperature range	-25 °C ... +60 °C		TBD
Noise emissions (typical)	30 dB(A)		TBD
Standby consumption	<10W		TBD
Cooling concept	Natural convection		TBD
Degree of protection (as per IEC 60529)	Ip66		TBD
Climatic category (according to IEC 60721-3-4)	4K4H		TBD
Max. permissible value for relative humidity (non-condensing)	100 %		TBD
Max. operating altitude	4000 m (>3000m power derating)		TBD

● Standard features ○ Optional features

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