

Tenka Power Center 5000 PRO - Three Phase Inverter



Tenka Power Center 5000 PRO - Three Phase Inverter - Main benefits



3-phase backup power

UPS level emergency backup power to supply the entire household



Tenka Power Cloud App

For easy commissioning and 24/7 system monitoring



IP-66 Rating

IP66-rated design for reliable outdoor use



Arc fault circuit interruptor

AFCI protection reduces fire risk resulting from DC arcs.



Maximum design flexibility

up to 4 MPPTs for versatility in PV system design and layout.



Fuse-less Design

Reducing BOS and O&M costs

Tenka Power Center 5000 PRO

15 KW

17 KW

20 KW

Input (DC)			
Max. PV array power	22500 Wp STC	25500 Wp STC	30000 Wp STC
Max. input voltage	1100 V		
MPP voltage range / rated input voltage	150V - 1000 V / 630 V		
Min. input voltage	125 V		
Initial. feed-in voltage	180 V		
Max. operating input current	32A / 20A	32A / 32A	32A / 32A
Max. short circuit current	48A / 30A	48A / 48A	48A / 48A
No. of independent MPPT inputs / strings per MPPT input	2 / A:2; B:1	2 / A:2; B:2	2 / A:2; B:2
Output (AC)			
Rated active power	15000 W	17000 W	20000 W
Rated apparent power	15000 VA	17000 VA	20000 VA
Max. apparent power	16500 VA	18700 VA	22000 VA ^{3,4}
AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V		
AC voltage range	160 V to 300 V		
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz		
Max. output current	24.0A	27.1A	31.9A
Adjustable power factor range	0.8 leading to 0.8 lagging		
Feed-in phases	3 / 3-N-PE		
Harmonic distortion (THD) at rated output	< 3%		
Efficiency & Protection			
Max. efficiency / European efficiency	98.6% / 98.2%		
DC switch	●		
Ground fault monitoring / grid monitoring	● / ●		
DC reverse polarity protection / AC short circuit protection	● / ●		
All-pole-sensitive residual-current monitoring unit	●		
Arc fault circuit interrupter (AFCI)	-		
Anti-islanding Protection	●		
Surge Protection	Type II		
Protection class (IEC 62109-1 / IEC 62109-1)	I / AC: III; DC: II		
General Data			
Dimensions (W / H / D)	503 / 435 / 183 mm		
Weight	17.3 kg	18.6 kg	18.6 kg
Operating temperature range	-25°C ... +60°C		
Self-consumption (at night)	< 1 W		
Topology	Non-isolated		
Cooling concept	Active Cooling		
Degree of protection (according to IEC 60529)	Ip66		
Climatic category (according to IEC 60721-3-4)	4K4H		
Max. permissible value for relative humidity (non-condensing)	100%		
Max. operating altitude	3000 m		
Features			
DC Connector	Plug-in connector		
AC Connector	Plug-in connector		
Mounting type	Wall-mount bracket		
LED indicators (Status / Fault / Communication)	●		
Communication interface (RS485 / WiFi / LAN / 4G)	● / ● / ○ / ○		
Country of manufacture	China		
Certificates and approvals (more available on request)	CE, EN50549, G98/99, VDE-AR-N4105, AS/NZS 4777, C10/C11, VFR 2014 & UTE C15, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, NB/T 32004		

● Standard features ○ Optional features

¹ Zero export installations supported with 2-pin RS485 for connection to approved smart meters

² DRED supported with RS485 communication for Australia & New Zealand

³ The overload setting is disabled as default for AS/NZS4777 grid codes

All information is subject to change | Version: Jan 2024