2024_V1

Tenka Power Center 1000 PRO - Single Phase Inverter

Tenka Power Center 1000 PRO - 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

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Tenka Power Center 1000 PRO

	3 KW	3.68 KW	4 KW	5 KW
Input (DC)				
Max. PV array power	4500 Wp STC	5520 Wp STC	6000 Wp STC	7500 Wp STC
Max. input voltage	600 V			
MPP voltage range / rated input voltage	60 V - 560 V / 360 V			
Min. input voltage	60 V			
Initial. feed-in voltage	100 V			
Max. operating input current	16A			
Max. short circuit current	24A			
No. of independent MPPT inputs / strings per MPPT input	2 / 1			
Output (AC)				
Rated active power	3000 W	3680 W	4000 W	5000 W
Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA
Max. apparent power	3300 VA	3680 VA	4400 VA	5500 VA
AC nominal voltage	220 V / 230 V / 240 V			
AC voltage range	180 V to 295 V			
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz			
Max. output current	15A	16A	20A	25A
Adjustable power factor range	0.8 leading to 0.8 lagging			
Feed-in phases	1			
Harmonic distortion (THD) at rated output	< 3%			
Efficiency & Protection				
Max. efficiency / European efficiency	98.2% / 97.5%			
DC switch	●			
Ground fault monitoring / grid monitoring	● / ●			
DC reverse polarity protection / AC short circuit protection	● / ●			
All-pole-sensitive residual-current monitoring unit	●			
Surge Protection	Type II			
Anti-islanding Protection	●			
Night monitoring	●			
Protection class (IEC 62109-1 / IEC 62109-1)	I / AC: III; DC: II			
General Data				
Dimensions (W / H / D)	368 / 325 / 145 mm			
Weight	9.5 kg			
Operating temperature range	-25°C ... +60°C			
Self-consumption (at night)	< 1 W			
Topology	Non-isolated			
Cooling concept	Natural convection			
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)	AS/NZS 4777.2,IEC 62109-1/2, IEC 61727, IEC 62116, NB/T32004			

● 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

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	6 KW	8 KW	10 KW
Input (DC)			
Max. PV array power	9000 Wp STC	12000 Wp STC	15000 Wp STC
Max. input voltage	600 V		
MPP voltage range / rated input voltage	60 V - 560 V / 360 V	80 V - 560 V / 360 V	
Min. input voltage	60 V	80 V	
Initial. feed-in voltage	100 V		
Max. operating input current	16A		
Max. short circuit current	24A	22.5A	
No. of independent MPPT inputs / strings per MPPT input	2 / 1	3 / 1	
Output (AC)			
Rated active power	6000 W	8000 W	10000 W
Rated apparent power	6000 VA	8000 VA	10000 VA
Max. apparent power	6600 VA	8800 VA	11000 VA
AC nominal voltage	220 V / 230 V / 240 V		
AC voltage range	180 V to 295 V		
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz		
Max. output current	30A	40A	50A
Adjustable power factor range	0.8 leading to 0.8 lagging		
Feed-in phases	1		
Harmonic distortion (THD) at rated output	< 3%		
Efficiency & Protection			
Max. efficiency / European efficiency	98.2% / 97.5%	97.7% / 97.3%	
DC switch	●		
Ground fault monitoring / grid monitoring	● / ●		
DC reverse polarity protection / AC short circuit protection	● / ●		
All-pole-sensitive residual-current monitoring unit	●		
Surge Protection	Type II		
Anti-islanding Protection	●		
Night monitoring	●	-	
Protection class (IEC 62109-1 / IEC 62109-1)	I / AC: III; DC: II		
General Data			
Dimensions (W / H / D)	368 / 325 / 145 mm	503 / 435 / 183 mm	
Weight	9.5 kg	< 18 kg	
Operating temperature range	-25°C ... +60°C		
Self-consumption (at night)	< 1 W		
Topology	Non-isolated		
Cooling concept	Natural convection		
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)	AS/NZS 4777.2 [3], IEC 62109-1/2 [3], IEC 61727 [3], IEC 62116 [3], NB/T32004 [3], CE, EN50549 [4], IEC62109 [4],IEC62116 [4], IEC61727 [4], IEC61683 [4], IEC60068 [4],IEC61000 [4], AS/NZS4777 [4], C10/C11 [4]		

● Standard features ○ Optional features

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