

Tenka Power Center 7000 - Three Phase Inverter



Tenka Power Center 7000 - Three Phase Inverter - Main benefits



32/40A String Current
32/40A maximum DC current per MPPT input



Fuse-less Design
Reducing BOS and O&M costs



150% oversizing
150% PV array oversizing for higher yields



Compact and lightweight
Compact and lightweight design for easy installation



IP-66 Rating
IP66-rated design for reliable outdoor use



Arc fault circuit interruptor
AFCI protection reduces fire risk resulting from DC arcs.

Tenka Power Center 7000

25 KW

27 KW

30 KW

Input (DC)			
Max. PV array power	37500 Wp STC	40500 Wp STC	45000 Wp STC
Max. input voltage	1100 V		
MPP voltage range / rated input voltage	180V - 1000 V / 630 V		
Min. input voltage	160 V		
Initial. feed-in voltage	200 V		
Max. operating input current	32A / 32 A /32A		
Max. short circuit current	48 A / 48A /48A		
No. of independent MPPT inputs / strings per MPPT input	3 / A:2;B:2;C:2		
Output (AC)			
Rated active power	25000 W	27000 W	30000 W
Rated apparent power	25000 VA	27000 VA	30000 VA
Max. apparent power	25000 VA	27000 VA	30000 VA
AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V		
AC voltage range	180 V to 305 V / 312 V to 528V		
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz		
Max. output current	39.9A	43.0A	47.8A
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	98.4% / 98.2%		
DC switch	●		
Ground fault monitoring / grid monitoring	● / ●		
DC reverse polarity protection / AC short circuit protection	● / ●		
All-pole-sensitive residual-current monitoring unit	●		
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)	543 / 520 / 235 mm		
Weight	29 kg	29 kg	29 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, IEC 62109-1/2, IEC 61727, IEC 62116, IEC61683, G98/G99, VDE4110, VED4105, EN50549-1/2		

● Standard features ○ Optional features

Tenka Power Center 7000

33 KW

36 KW

40 KW

Input (DC)			
Max. PV array power	49500 Wp STC	54000 Wp STC	60000 Wp STC
Max. input voltage	1100 V		
MPP voltage range / rated input voltage	180V - 1000 V / 630 V		
Min. input voltage	160 V		
Initial. feed-in voltage	200 V		
Max. operating input current	32A / 32 A /40A		
Max. short circuit current	48 A / 48A /60A		
No. of independent MPPT inputs / strings per MPPT input	3 / A:2;B:2;C:2		
Output (AC)			
Rated active power	33000 W	36000 W	40000 W
Rated apparent power	33000 VA	36000 VA	40000 VA
Max. apparent power	33000 VA	36000 VA	40000 VA
AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V		
AC voltage range	180 V to 305 V / 312 V to 528V		
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz		
Max. output current	52.6A	57.4A	63.8A
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	98.4% / 98.2%		
DC switch	●		
Ground fault monitoring / grid monitoring	● / ●		
DC reverse polarity protection / AC short circuit protection	● / ●		
All-pole-sensitive residual-current monitoring unit	●		
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)	543 / 520 / 235 mm		
Weight	30 kg	30 kg	30 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		
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