

Tenka Power Center 7100 - Three Phase Inverter



Tenka Power Center 7100 - Three Phase Inverter - Main benefits



Maximum design flexibility
up to 5 MPPTs for versatility in
PV system design and layout.



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 7100

45 KW

50 KW

60 KW

Input (DC)			
Max. PV array power	67500 Wp STC	75000 Wp STC	90000 Wp STC
Max. input voltage	1100 V		
MPP voltage range / rated input voltage	200V - 1000 V / 630 V		
Min. input voltage	200 V		
Initial. feed-in voltage	250 V		
Max. operating input current	40 A / 32 A / 32 A / 40 A	40 A / 32 A / 32 A / 40 A / 32 A	40 A / 32 A / 32 A / 40 A / 32 A
Max. short circuit current	60 A / 48 A / 48 A / 60 A	60 A / 48 A / 48 A / 60 A / 48 A	60 A / 48 A / 48 A / 60 A / 48 A
No. of independent MPPT inputs / strings per MPPT input	4/2	5/2	5/2
Output (AC)			
Rated active power	45000 W	50000 W	60000 W
Rated apparent power	45000 VA	50000 VA	60000 VA
Max. apparent power	45000 VA	50000 VA	60000 VA
AC nominal voltage	220 V / 380 V 230 V / 400 V		
AC voltage range	180 V to 305 V / 312 V to 528 V		
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz		
Max. output current	127.0 A	158.8 A	174.7 A
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% / 98.3%		
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		
Sunspec protocol	●		
General Data			
Dimensions (W / H / D)	670 / 640 / 270 mm		
Weight	40 kg	43 kg	43 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		
Relative humidity (non-condensing)	100%		
Max. operating altitude	4000 m		
Features			
DC Connector	Plug-in connector		
AC Connector	OT/DT 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