



## PSiO20000W3#1000VPVK

### Features:

#### Efficient and flexible

- >> 2 independent MPPT, more generation
- >> Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

#### Safe and reliable

- >> IP65 for outdoor application
- >> Integrated AC/DC full lightning protection
- >> All industrial grade electronic device, ensure 25 years full life circle running

### Intelligent Managmet

- >> I&V Intelligent diagnosis, accurate identification and positioning of abnormal PV panels
- >> Support RS485, Wifi, GPRS communication
- >> Remote online upgrade, convenient and efficient

### Grid Friendly

- >> Grid-connected current harmonics <3%, green adapts to grid
- >> Ultra wide grid voltage range



## Technical Specifications

Model	PSiO20000W3#1000VPVK
<b>DC Input</b>	
Max. PV input voltage	1000Vdc
Rated input voltage	600Vdc
Max. PV input current	44A (4×11A)
No. of MPPTs	2
No. of PV strings per MPPT	2/2
MPPT voltage range	200Vdc~950Vdc
Starting voltage	200Vdc
<b>AC Output</b>	
Rated AC output power	20kW
Max. output power	22kW
Rated AC output voltage	380/400/415Vac
Rated output current	29.0A
Max. output current	31.9A Per Phase
Rated grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99 (full load)
Adjustable power factor	0.8 (leading)~0.8 (lagging)
THDI	<3% (rated power)
<b>Efficiency</b>	
Max. efficiency	98.60%
European efficiency	98.30%
<b>Protection</b>	
Anti-islanding	Yes
DC reversed connection	Yes
AC short circuit protection	Yes
Temperature protection	Yes
Surge protection	Yes
PV fault detect	Yes
DC switch	Optional
<b>General</b>	
Dimensions (W×H×D)	480×420×180mm
Weight	25kg
IP grade	<50dB
Noise level	IP65
Self-consumption at night	<1W
Cooling type	Intelligent forced air cooling
Altitude	4000m (>3000m derating)
Operating temperature	-25°C~60°C (>45°C derating)
Operating humidity	0~100%
Display	LCD+LED
Communication	RS485/WIFI (optional)/GPRS (optional)/DRM (Australia)
DC terminal	H4 Terminal
AC terminal	OT Terminal
Installation method	Wall-mounted