

# 20kw Grid Connected Solar String Inverter

## Technical Specification

<b>Input Side Data(DC)</b>	
Max. PV input power	21000W (10500W/10500W)
Max. PV input voltage	1000V
Start-up voltage	300V
Nominal input voltage	620V
MPP voltage range	280~950V
MPP voltage range for nominal power	480~800V
No. of MPPTs	2
Max. number of PV strings per MPPT	3
Max. PV input current	42A(21A/21A)
Max. current for input connector	12A
<b>Output Side Data(AC)</b>	
Nominal AC output power	20000W
Max. AC output power (PF=1)	22200W
Max. AC output apparent power	22200VA
Max. AC output current	33A
Nominal AC voltage	3/N/PE, 230/400Vac
AC voltage range	310~480Vac
Nominal grid frequency	50Hz/60Hz
Grid frequency range	47~53Hz/57~63Hz
THD	<3% (nominal power)
DC current injection	<0.5 %In
Power factor	>0.99@default value at nominal power
<b>Protection</b>	
Anti-islanding protection	Yes
LVRT	Yes
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC fuse	No
Overvoltage protection	Yes
<b>Efficiency</b>	
Max. efficiency	98.70%
European efficiency	98.50%
<b>General Data</b>	
Isolation method	Transformer less
Ingress protection rating	IP65
Night power consumption	<1W
Operating ambient temperature range	-25~60°C (>45°C derating)
Allowable relative humidity range	0~100%
Cooling method	Smart forced air cooling
Max. operating altitude	4000m (>3000m derating)
Display	Graphic LCD
Communication	RS485 (RJ45 connector)
DC connection type	MC4
AC connection type	Plug and play connector
<b>Mechanical Data</b>	
Dimensions (W*H*D)	648*686*246mm
Mounting method	Wall bracket
Weight	55kg