

# Grid Connected Solar String Inverter Spec

## For 8-12kw

Models	8Kw	10Kw	12Kw
<b>Input Side Data</b>			
Max. PV input power	8440W	10550W	12650W
Max. PV input voltage	1000V		
Start-up voltage	250V		
Nominal input voltage	610V		
MPP voltage range	200~900V		
MPP voltage range for nominal power	320~800V	320~800V	350~800V
No. of MPPTs	2		
Max. number of PV strings per MPPT	3/1		
Max. PV input current	33A (22A/11A)	33A (22A/11A)	36A (24A/12A)
Max. current for input connector	12A		
Short-circuit current of PV input	42A (28A/14A)	42A (28A/14A)	45A (30A/15A)
<b>Output Side Data</b>			
Nominal AC output power	8000W	10000W	12000W
Max. AC output power (PF=1)	8000W	10000W	12000W
Max. AC output apparent power	8000VA	10526VA	13300VA
Max. AC output current	11.6A	15.3A	19.3A
Nominal AC voltage	3/N/PE, 230/400Vac		
AC voltage range	310~480Vac (May vary as per corresponding country's grid standard)		
Nominal grid frequency	50Hz		
Grid frequency range	45~55Hz (May vary as per corresponding country's grid standard)		
THD	<3% (Nominal power)		
DC current injection	<0.5% I <sub>n</sub>		
Power factor	>0.99@default value at nominal power, (adj. 0.8 leading ~ 0.8 lagging)		
<b>Protection</b>			
Anti-islanding protection	Yes		
LVRT	No		
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
DC switch	Integrated		
DC fuse	No		
Overvoltage protection	III		
<b>System Data</b>			
Max. efficiency	98.0%	98.0%	98.0%
Max. European efficiency	97.5%	97.6%	97.5%
Isolation method	Transformerless		
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	Natural cooling		
Noise	≤29dB		
Max. operating altitude	2000m		
Display	Graphic LCD		
Communication	2 × Ethernet, 2 × RS485 (RJ45 connector), 4 × Digital Inputs, 2 × Digital outputs		
DC connection type	MC4		
AC connection type	Plug and play connector		
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G83/1, VDE-AR-N-4105, CEI 0-21		
<b>Mechanical Data</b>			
Dimensions (W*H*D)	535*710*220mm		
Mounting method	Wall bracket		
Weight	36kg 36kg 45kg		