

PV Grid-Connected Inverter

STRING INVERTER

SCPV-60KW-M



FLEXIBLE

- Handy and light, easy to handle without lift machinery assistance, lower the cost of installation and maintenance
- Integrated DC combine and surge protection function, lower the system cost
- DC arc detection function (optional), further enhance the safety performance (optional), decrease the loss of generation attenuation

EFFICIENT

- Max efficiency at 98.90%
- Integrated string detection function, find mismatch panel in time and accurately
- PV panel PiD effect eliminate function (optional), decrease the loss of generation attenuation

GRID-FRIENDLY

- Active power continuously adjustable (0~100%)
- Fulfil a variety of reactive power adjustment requirements with power factor 0.8 overexcited ~0.8 underexcited
- Integrated LVRT and HVRT function

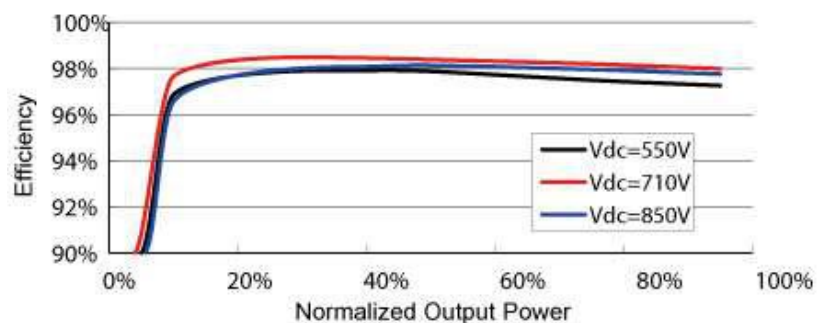
QUALIFIED

- TÜV, CE, G59/3, BDEW, CGC and GB-T19964 certification



Efficiency Curve

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Specifications (subject to change without notice)	SCPV 60KW-M
Input Side Data	
Max. PV input power	67500W
Max. PV input voltage	1000V
Startup voltage	300V
Nominal input voltage	710V
MPP voltage range	300~950V
MPP voltage range for nominal power	500~850V
No. of MPPTs	4
Max. number of PV strings per MPPT	3
Max. PV input current	112A (28A/28A/28A/28A)
Max. current for input connector	12A
Output Side Data	
Nominal AC output power	60000W
Max. AC output power (PF=1)	66000W
Max. AC output apparent power	66000VA
Max. AC output current	80A
Nominal AC voltage	3/N/PE, 277/480Vac
AC voltage range	422~528Vac
Nominal grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz / 55~ 65Hz
THD	<3% (Nominal power)
DC current injection	<0.5%In
Power factor	>0.99@default value at nominal power, (adj. 0.8overexcited / ~0.8underexcited)
Protection	
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	Yes
Overvoltage protection	Type II DIN rail surge arrester (40kA)
System Data	
Max. efficiency	98.90%
Max. European efficiency	98.60%
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	<1W
Operating ambient temperature range	-25~60°C (>50°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
DC connection type	MC4
AC connection type	Screw Clamp terminal
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/3, BDEW, GB/T 19964, GB/T 29319
Mechanical Data	
Dimensions (W*H*D)	665*906*256 mm
Mounting method	Wall bracket
Weight	70kg

Circuit Diagram

