

SOFAR 255KTL



Three-Phase

Twelve MPPTs



Built-in Anti-PID and PID recovery



Compatible with Al and Cu AC cables



IP66 and C5 protection



IV curve scan and diagnosis



Type II SPD for both DC and AC



12*MPPT with max. efficiency 99.02%



Touch free commissioning and remote firmware upgrade



AC / DC dual power supply redundant design, 24-hour status monitoring

Datasheet

SOFAR 255KTL

Input (DC)

Max. input voltage	1500V
Rated input voltage	1080V
Start-up voltage	500V
MPPT operating voltage range	500V-1500V
Full power MPPT voltage range	800V-1300V
Number of MPP trackers	12
Number for DC inputs	24
Max. input MPPT current	30A*12
Max. input short circuit current	50A*12

Output (AC)

Rated power	255kW
Max. AC apparent power	255kVA@30°C / 230kVA@45°C / 220kVA@50°C
Max. output current	184A
Nominal grid voltage	3/PE, 800Vac
Grid voltage range	640Vac-920VVac
Nominal frequency	50 / 60Hz
Grid frequency range	45~55Hz / 55~65Hz (According to local standard)
Active power adjustable range	0~100%
THDi	<3%
Power factor	I default (adjustable +/-0.8)

Performance

Max. Efficiency	99.02%
European weighted efficiency	98.50%
Self-consumption at night	<2W
MPPT efficiency	>99.9%

Protection

DC reverse polarity protection	Yes
Anti-islanding protection	Yes
Leakage current protection	Yes
Ground fault monitoring	Yes
PV-array string fault monitoring	Yes
Zero voltage ride through	Yes
DC switch	Yes
Anti-PID protection	Yes
Protection class/ Overvoltage category	I/III
Input/ Output SPD	PV: type II standard, AC: type II standard

Communication

Power management unit	According to certification and request
Communication	RS485 /USB /Bluetooth, Optional: WiFi /GPRS /PLC
Operation data storage	25 years

General Data

Ambient temperature range	-30°C~+60°C
Topology	Transformerless
Degree of protection	IP66
Allowable relative humidity range	0~100%
Max. operating altitude	4000m
Noise	≤60 dB
Weight	100kg
Cooling	Smart forced air cooling
Dimension	1051*660*340mm
Display	LCD&Bluetooth+APP
Warranty	5 years/ 7 years/ 10 years

Standard

EMC	EN 61000-6-2, EN 61000-6-4
Safety standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)
Grid standard	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G99, EN50530, NB/T32004