

SOFAR 255KTL-HV

255 kW

THREE-PHASE TWELVE-MPPTS



Product advantages

- 12 MPPTs with max. efficiency up to 99.02%
- IP66 and C5 protection design for outdoor
- PID recovery
- Compatible with Al and Cu AC cables
- Type II SPD for both DC and AC side
- AC / DC dual power supply redundant design, 24-hour status monitoring
- I-V curve scanning function



Datasheet

SOFAR 255KTL-HV

Input (DC)

Max. input voltage	1500V
Rated input voltage	1160V
Start-up voltage	550V
MPPT operating voltage range	500-1500V
Full power MPPT voltage range	800-1300V
Number of MPP trackers	12
Number for DC inputs	24
Max. input MPPT current	12*30A
Max. input short circuit current	12*50A

Output (AC)

AC output power	255kVA@35°C / 230kVA@45°C / 220kVA@50°C
Max. output current	184A
Rated grid voltage	3 / PE, 800 Vac
Grid voltage range	640 Vac-920 Vac
Rated grid frequency	50 / 60 Hz
Grid frequency range	45-55 Hz / 55-65 Hz
Active power adjustable range	0-100%
THDi	< 3%
Power factor	1 (adjustable +/-0.8)

Efficiency

Max. efficiency	99.02%
European efficiency	98.70%

Protection

DC reverse polarity protection	Yes
Anti-islanding protection	Yes
Leakage current protection	Yes
Ground fault monitoring	Yes
PV-array string fault monitoring	Yes
DC switch	Yes
PID recovery	Yes
SPD	PV: type II standard, AC: type II standard

Communication

Standard Communication mode	RS485/PLC
-----------------------------	-----------

General Data

Ambient temperature range	-30°C ~ +60°C
Self-consumption at night	< 2W
Topology	Transformerless
Degree of protection	IP66
Allowable relative humidity range	0-100%
Max. operating altitude	5000 m (>4000 m derating)
Weight	99kg
Cooling	Smart forced air cooling
Dimension (W*H*D)	1100.5*713.5*368mm
Display	LCD, App via Bluetooth

Standard	EN / IEC62109, EN / IEC 61000, IEC62116, IEC61727, IEC 61683, IEC60068, EN50530, VDE V 0126-1-1, UTE-C-15 712-1, VDE-AR-N 4110, 4120, EN50549, IEC 62910, SHAMS DUBAI
----------	---

* All specifications are subject to change without notice.