

SOFAR

250K~255KTL-HV

250KTL-HV / 255KTL-HV



Three-Phase

Twelve MPPTs

PID

Built-in Anti-PID and PID recovery



IP66 and C5 protection



Type II SPD for both DC and AC



Touch free commissioning and remote firmware upgrade



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



Compatible with Al and Cu AC cables



IV curve scan and diagnosis



12*MPPT with max. efficiency 99.01%

Datasheet

SOFAR 250KTL-HV

SOFAR 255KTL-HV

Input (DC)

Max. input voltage	1500V
Rated input voltage	1080V
Start-up voltage	550V
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)

AC output power	250kVA@30°C / 235kVA@40°C / 220kVA@50°C	255kVA@30°C / 235kVA@40°C / 220kVA@50°C
Max. output current	180.5A	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	1 default (adjustable +/-0.8)	

Performance

Max. Efficiency	99.01%
European efficiency	98.80%

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 function	Optional
AFCI protection	Optional
Protection class/ Overvoltage category	I/III
Input/ Output SPD	PV: type II standard AC: type II Standard

Communication

Communication	RS485 /USB /Bluetooth, Optional: WiFi /GPRS /PLC
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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	4000m
Noise	≤60 dB
Weight	99kg
Cooling	Smart forced air cooling
Dimension	1100.5*713.5*368mm
Display	LCD&Bluetooth+APP
Standard 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