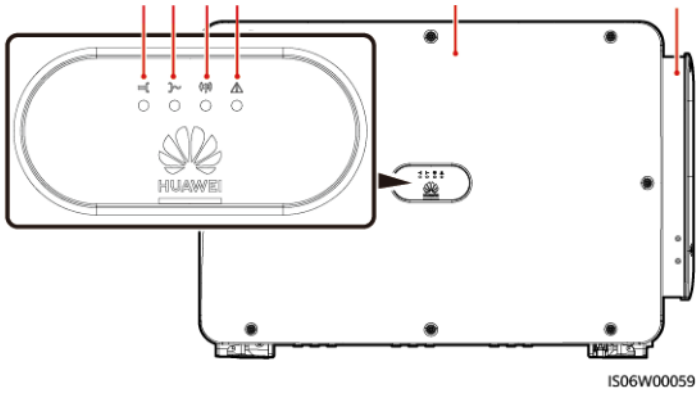
SUN2000-125KTL-JPH0

125 kW Three-Phase Grid-Tied PV String Inverter

1500 V DC architecture | 9 MPPT circuits | 18 inputs | Transformerless



Front view from Huawei user manual

RATED ACTIVE POWER	MAX EFFICIENCY	MAX APPARENT POWER
125 kW	>= 98.8%	140 kVA

MAX INPUT VOLTAGE	MPPT CIRCUITS / INPUTS	IP RATING
1500 V	9 / 18	IP66

RATED OUTPUT	MAX OUTPUT CURRENT	POWER FACTOR	DIMENSIONS	WEIGHT
550 V AC, 3W+PE	147.0 A	0.8 lead to 0.8 lag	1080 x 700 x 365 mm	88 kg

Electrical Performance

Specifications extracted from manual pages 106-107.

Efficiency & Input

Item	SUN2000-125KTL-JPH0
Maximum efficiency	>= 98.8%
Maximum input voltage	1500 V
Maximum input current (per MPPT)	26 A / 30 A
Maximum short-circuit current (per MPPT)	40 A / 50 A
Maximum backfeed current to the PV array	0 A
Minimum operating voltage / startup voltage	500 V / 550 V
Operating voltage range	500-1500 V
Full-power MPPT voltage range	800-1100 V
Rated input voltage	900 V
Number of inputs	18
Number of MPPT circuits	9

Output

Item	SUN2000-125KTL-JPH0
Rated active power	125 kW
Maximum apparent power [1]	140 kVA
Maximum active power (cosϕ = 1)	125 kW
Rated output voltage	550 V AC, 3W+PE
Rated output current	131.3 A
Supported power grid frequency	50 Hz / 60 Hz
Maximum output current	147.0 A
Power factor	0.8 leading to 0.8 lagging
Maximum total harmonic distortion (rated power)	< 3%

[1] Default maximum apparent power is 125 kVA; the Maximum apparent power parameter can be modified.

Protection, Communication & General

Specifications extracted from manual pages 107-108.

Protection

Item	Value
Input DC switch	Supported
Anti-islanding protection	Supported
Output overcurrent protection	Supported
Input reverse connection protection	Supported
PV string fault detection	Supported
DC surge protection	Type II
AC surge protection	Type II
Insulation resistance detection	Supported
Residual current monitoring unit (RCMU)	Supported
Overvoltage category	PV II / AC III

General Specifications

Item	Value
Dimensions (W x H x D)	1080 mm x 700 mm x 365 mm
Net weight	88 kg
Operating temperature	-25°C to +60°C
Cooling mode	Smart air cooling
Maximum operating altitude	4000 m
Relative humidity	0%-100% RH
Input terminal	MC4 EVO2
Output terminal	Waterproof terminal + OT/DT terminal
IP rating	IP66
Topology	Transformerless

Noise & Communication

Item	Value
Typical noise value	65 dB(A)
Display	LED indicator; USB data cable + App
RS485	Supported
USB	Supported

Typical noise value is based on lab testing under typical working conditions. The manual advises avoiding installation in noise-sensitive areas.

Source & Scope

This datasheet consolidates only the technical data shown on pages 106-108 of the uploaded SUN2000-125KTL-JPH0 User Manual, Issue 26 dated 2026-08-30. Refer to the full manual for installation, safety, grid-code and commissioning requirements.