



String Inverter

WP-330KTL-H1

Product Description

The WP-330KTL-H1 is a high-performance string inverter engineered for utility-scale solar plants. Featuring up to 99.0% efficiency, SSLD, SSCF, SDTC, Smart IV Curve Diagnosis, and 28-string monitoring, it delivers enhanced safety, intelligent diagnostics, and optimized energy yield, ensuring reliable operation and reduced O&M costs throughout the plant lifecycle.

Technical Specification

Efficiency	
Max. Efficiency	≥99.0%
European Efficiency	≥98.8%
Input	
Max. Input Voltage	1,500 V
Number of MPP Trackers	6
Max. Current per MPPT	65 A
Max. Short Circuit Current per MPPT	115 A
Max. PV Inputs per MPPT	4/5/5/4/5/5
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Output	
Nominal AC Active Power	275,000 W*
Max. AC Apparent Power	330,000 VA
Max. AC Active Power (cosØ=1)	330,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	198.5 A*
Max. Output Current	238.2 A
Adjustable Power Factor Range	0.8 LG 0.8 LD
Total Harmonic Distortion	< 1%

Protection

Smart String-Level Disconnect(SSLD)	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Protection	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
AC Grounding Fault Protection	Yes
Residual Current Monitoring Unit	Yes

Communication

Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes

General

Dimension (W × H × D)	1,048 x 732 x 395 mm
Weight	≤ 112 kg
Operating Temperature Range	-30°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

* Environmental temperature is 50°C

