



Arc Fault Protection



Smart String Level Disconnect (SSLD)



PID Recovery



PV Ground Fault Protection



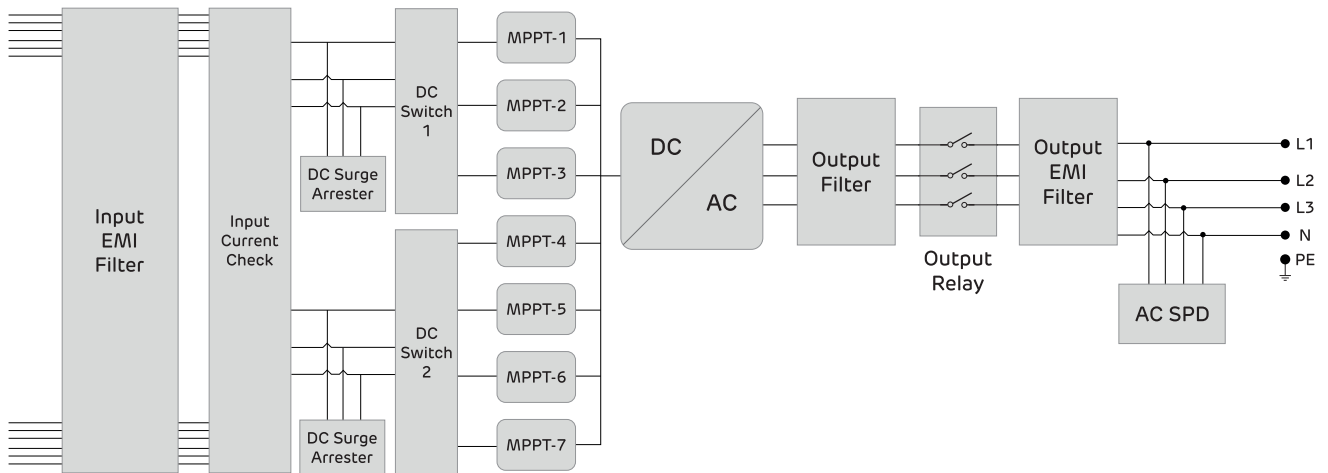
Smart Connector Temperature Detector



MBUS Supported



Topology



Wattox 150 KTL-MGO

Technical Specification

Efficiency

Maximum Efficiency	98.6% @400V, 98.8% @480V
European Efficiency	98.4%

Input

Maximum Input Voltage	1,100 V
Maximum Current per MPPT	48 A
Maximum Current per Input	23 A
Max. Short Circuit Current per MPPT	66 A
Start Voltage	200 V
MPPT Operating Voltage Range	200 V ~ 1,000 V
Number of MPP Trackers	7
Max. Input Number per MPP Tracker	3

Output

Nominal AC Active Power	150 kW
Maksimum AC Apparent Power	165 kVA
Maksimum AC Active Power (cosφ=1)	165kW
Nominal Output Voltage	380 V/400 V/480 Vac
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	227,9 A @380V / 216,5 A @400V / 180,4 A @480V
Maximum Output Current	253,2 A @380V/ 240,5 A @400V/ 200,5 A @480V
Adjustable Power Factor Range	0,8 LG ... 0,8 LD
Alternating Current THDi	THDi < 1% (Rated)

Protection

Anti-islanding Protection and AC Overcurrent Protection	Yes
DC Reverse Polarity Protection and PV-array String Fault Monitoring	Yes
AC Surge Arrester and DC Surge Arrester	Type II
DC Insulation Resistance Detection and Residual Current Monitoring Unit	Yes
Smart String Level Disconnect (SSLD)	Yes
PID Recovery and PV Ground Fault Protection	Yes
Terminal Temperature Detection and Arc Fault Protection	Yes

General

Dimensions (W x H x D)	1,000 x 710 x 395 mm
Weight (with mounting plate)	102 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Maximum Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Amphenol HH4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

Communication

Display	LED indicators; WLAN adaptor + FusionSolar APP
Communication	RS485,USB, Smart Dongle- 4G/WLAN (Opt), MBUS (isolation transformer required)

Standard Compliance

Certificates	EN 62109-1/2, IEC 62109-1/2, IEC 62116, IEC 61727, IEC 60068, IEC 61683,
Grid Connection Standards	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11

