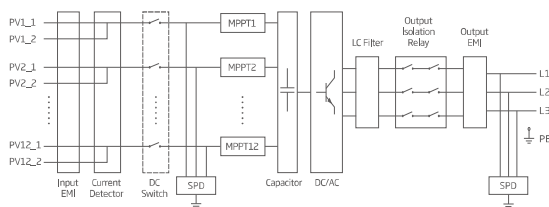




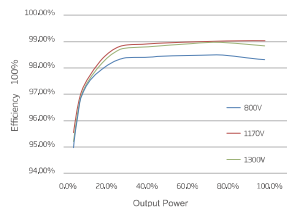
TS250KTL-HV

- 12 MPPT, Y+1 wiring, maximum 36 inputs
- Non-fuse design, higher safety and reliability
- PV-array anti-PID function & PID repair
- Night SVG function with DC side isolated
- Protection level IP 66, anti-corrosion C5, minimum operating temperature -25°C, adapts to extreme environment with salty-mist, corrosion, humidity, low temperature
- Refined string detection achieves no blind zone, intelligent IV diagnosis-optional
- Flexible communication with RS485/PLC/Wifi

Schematic Drawing



Efficiency Curve



Model	TS250KTL-HV
Input (DC)	
Max. DC Voltage	1500V
Max. DC Current per MPPT	30A
Max. Short Circuit Current per MPPT	50A
MPPT Voltage Range	550V~1500V
Full Power MPPT Range	880V~1300V
Independent MPPT Number	12
Max. Input Number of PV Strings per MPPT	3
Output (AC)	
AC Output Power	250kVA@30°C 228kVA@40°C 208kVA@50°C
Nominal Output Current	165A
Max. AC Current	180A
Nominal AC Voltage	800Vac , 3W+PE
Grid Voltage Range	680~920Vac
Rated AC Frequency	50/60Hz
AC Frequency Range	45Hz~55Hz/55Hz~65Hz
DC Current Injection	<0.5% *I _{pn}
Power Factor Range	0.8 (leading) ~ 0.8 (lagging), adjustable
Max. THDi	< 3%
Grid Type	IT
Inverter Efficiency	
Max. Efficiency	≥ 99%
European Efficiency	≥ 98.75%
Isolation Method	Transformerless
IP Protection	IP66
Night Power Consumption	< 3W
Environment Parameters	
Operating Ambient Temperature Range	-25°C~60°C
Ambient Humidity	0%~100%
Max. Operating Altitude @Full Load	5000m (>4000m derating)
Cooling Method	Smart forced air cooling
Display and Communication	
Display	LED Indicators , WiFi + APP
Communication Interfaces	RS485 / PLC(optional)
Protection Function	
Anti-Islanding Protection	Yes
Low-Voltage Ride-Through (LVRT)	Yes
DC Input Reverse Polarity Protection	Yes
AC Short-circuit Protection	Yes
Leakage Current Protection	Yes
Grid Voltage Frequency Protection	Yes
RCD Detection	Yes
Lightning Protection	DC Type II / AC Type II
Insulation Resistance Detection	Yes
Mechanical Data	
Dimensions (W×H×D)	1100mm*700mm*360mm
Weight	110kg
DC Connector	Amphenol UTX/ Staubli MC4 EVO2
AC Connector	Waterproof Connector + DT Terminal
Installment Method	Wall Mounted Type