



Features

- Max efficiency 98.6%, European efficiency 98.3% with innovative topology lower THDi
- 5 MPPTS to improve energy harvesting
- Ultra wide MPPT full load voltage range
- Overload capacity of 110% for 3 hours at Temp <45°C

Flexibility

- IP65, can be used in harsh outdoor environment
- Natural convection cooling

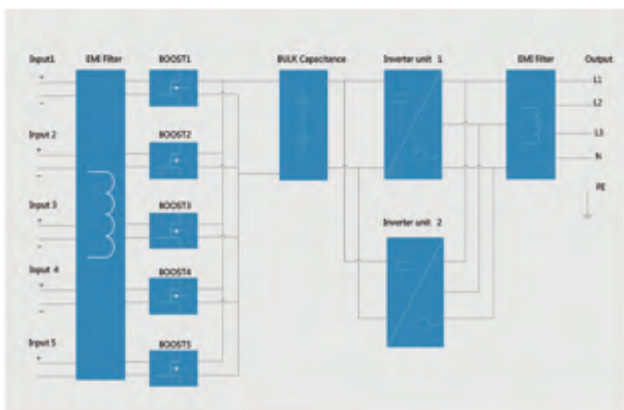
Reliability

- Integrated smart combiner box, self-diagnosis with up to 10 DC inputs
- Modular design, realizes intelligent sleep
- Light in weight, wall-mounted
- Special designed wiring box to simplify installation and maintenance

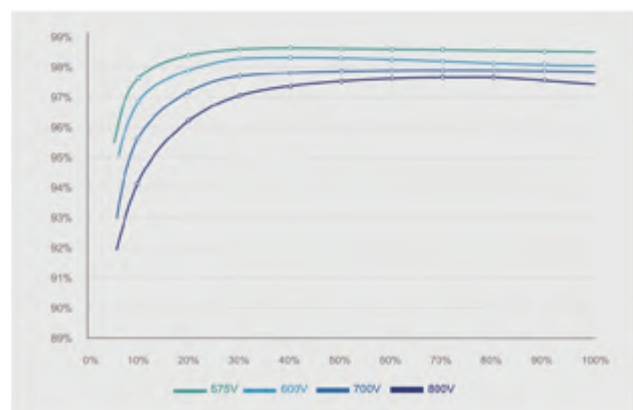
ST 50/60 KTL



DIAGRAM



EFFICIENCY



Technical Data

Model	ST50KTL	ST60KTL
Input(DC)		
Max input power	56250W	60000W
Max input voltage	1100V	1100V
MPPT voltage range	200~1000 V	200~1000 V
Full load MPPT voltage range / Rated voltage	450-850/620 V	450-850/620 V
Max input current per MPPT	5*27A	5*/27A
Starting voltage/ On-grid voltage	180V /250V	180V /250V
Number of MPP trackers /Strings per tracker	5/2	5/2
Output(AC)		
AC nominal power (@230V,50HZ)	50000W	60000W
Max output power	50000VA	60000VA
Nominal AC voltage	3/N/PE;230/400V	3/N/PE;230/480V
AC voltage range	176~265Vac(Adjustable)	176~265Vac(Adjustable)
AC grid frequency	50HZ/60HZ	50HZ/60HZ
Max output current	80A	86A
Nominal power factor	>0.99	>0.99
Power factor(adjustable)	0.8leading -0.8lagging	0.8leading -0.8lagging
Harmonics(THD)	< 2%	< 2%
Efficiency		
Max efficiency	98.6%	98.8%
European efficiency	98.3%	98.5%
MPPT efficiency	99.9%	99.9%
Protection		
String fault monitor	Yes	Yes
Reverse connection protection	Yes	Yes
Reverse current protection	Yes	Yes
DC/AC overvoltage protection	Yes	Yes
DC insulation impedance monitoring	Yes	Yes
DC surge protection	Typell	Typell
AC surge protection	Typell	Typell
Grounding monitoring	Yes	Yes
RCD current leakage protection	Yes	Yes
Anti-islanding	Yes	Yes
General data		
Net dimensions (W/H/D)	800/845/240 mm	800/845/240 mm
Gross dimensions (W/H/D)	955/885/420mm	955/885/420mm
Net weight / Gross weight	70/100Kg	70/100Kg
Operating temperature range	-25°C ~60°C	-25°C ~60°C
Degree of protection (according to IEC 60529)	IP65	IP65
Altitude	3000m (>3000m degrading)	3000m (>3000m degrading)
Night consumption	< 0.5W	< 0.5W
Cooling method	Natural	Natural
Noise	< 29dB	< 29dB
Communication	RS485/WiFi	RS485/WiFi
Warranty (5 /10 /15 years)	Yes/Opt./Opt.	Yes/Opt./Opt.