

ST40K/50K/60KTL



Reliability

- Multiple parallel connection intelligent restrains THDi overlay. THDi<2%
- More Reliable electricity supply from both self-produced and DC side
- NO fan, little noise

High Efficiency

- Innovative topology Max efficiency 98.6% European efficiency over 98.3%
- 5 MPPT
- Intelligent sleep and easy maintenance thanks to modular design for Boost and inverter circuit
- Excellent over-load capacity ensure energy production under strong sunshine

Green and safe

- Optional AFCI function
- Complete protection, adapting bad grid.

Intelligent

- Built-in intelligent combining box.
- Bus capacitor life smart detection and alarm

Easy-application

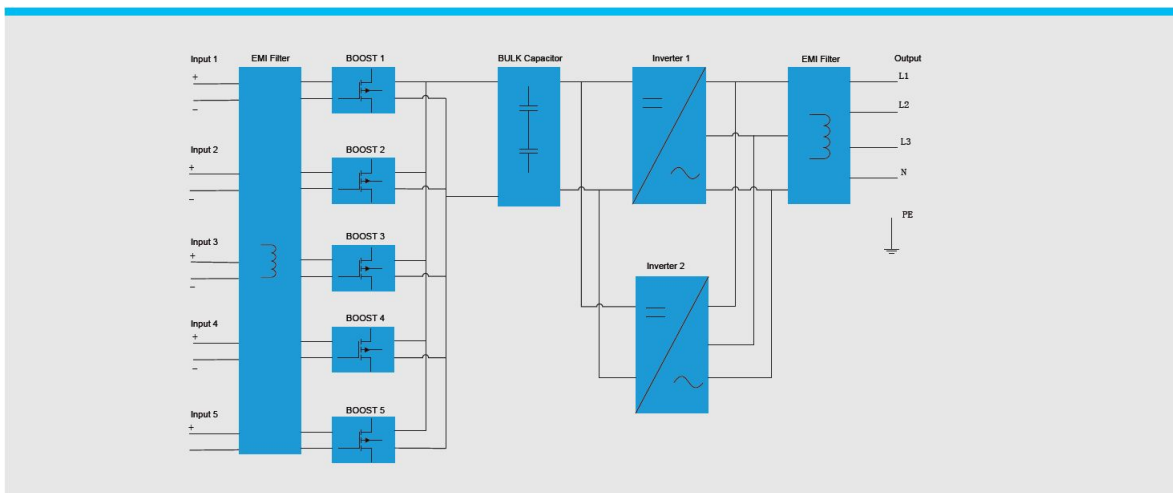
- Wall-mounted compact size

ST40K/50K/60KTL Series

ST40K/50K/60KTLseries designed specially for distributed systems, which uses patented innovative topology,efficiency reach to 98.6%. More easier configuration with 5mpp trackers

Super wide voltage range from 200v to 900v suits to very different ambient temperature which usually caused by complexity of distributed system

Diagram



Technical Data

Model	ST40KTL	ST50KTL	ST60KTL
Input(DC)			
Recommend Max DC power	45000W	56250W	67500W
Max input voltage	1000Vdc	1000Vdc	1000Vdc
MPPT voltage range	200~950 Vdc	200~950 Vdc	200~950 Vdc
Full load MPPT voltage range/ Rated voltage	450-850/620 Vdc	450-850/620 Vdc	450-850/620 Vdc
No of MPPT/ strings per tracker	4	5	5
Max input current	4*27A	5*27A	5*27A
Starting voltage	180V	180V	180V
DC terminal block	Amphenol in-line	Amphenol in-line	Amphenol in-line
Output(AC)			
AC nominal power (@230V,50HZ)	40000W	50000W	60000W
Max output power	44000W	55000W	66000W
Nominal AC voltage	3/N/PE;230/400V	3/N/PE;230/400V	3/N/PE;270/480V
AC voltage range	176~265Vac(Adjustable)	176~265Vac(Adjustible)	213~319Vac(Adjustible)
AC grid frequency	50HZ/60HZ	50HZ/60HZ	50HZ/60HZ
Max output current	64A	80A	80A
Nominal power factor	>0.99	>0.99	>0.99
Power factor(adjustable)		0.8leading -0.8lagging	
Hamonics(THD)	< 2%	< 2%	< 2%
Efficiency			
Max efficiency	98.6%	98.6%	98.6%
European efficiency	98.3%	98.3%	98.3%
MPPT efficiency	99.9%	99.9%	99.9%
Protection			
String fault monitor	Yes	Yes	Yes
Reverse connection protection	Yes	Yes	Yes
reverse current protection	Yes	Yes	Yes
DC/AC overvoltage protection	Yes	Yes	Yes
DC insulation impedance monitoring	Yes	Yes	Yes
DC surge protection	Typell	Typell	Typell
AC surge protection	Typell	Typell	Typell
Ground monitoring	Yes	Yes	Yes
RCD current leakage protection	Yes	Yes	Yes
Anti-ilandng	Yes	Yes	Yes
General data			
Weight	70Kg	70Kg	70Kg
Working temperature	-25℃ ~60℃	-25℃ ~60℃	-25℃ ~60℃
Ingress protection	IP65	IP65	IP65
Altitude	3000m (>3000m degrading)		
Night consumption	< 0.5W	< 0.5W	< 0.5W
Cooling	Natural	Natural	Natural
Noise	< 29 dB	< 29 dB	< 29 dB
Communication	RS485/TCP/IP	RS485/TCP/IP	RS485/TCP/IP
Warranty (5/10/15 years)	Yes/Opt./Opt.	Yes/Opt./Opt.	Yes/Opt./Opt.