

MAX 98.6% EFFICIENCY

IP65 PROTECTION



Safe & Reliable

- High reliability due to good heat dissipation design
- IP65, wider working temperature and altitude, adapt to various installation environments
- Integrated lightening protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology



High Revenue

- High yield with Max.98.6% efficiency
- European weighted efficiency 98.2%
- Longer working hours due to the lower start-up voltage and wider MPPT range
- Up to 10% continuous output overloading capacity
- Dual MPPT design with precise MPPT algorithm
- Standard 5 years warranty, extendable to 10 or 15 years



Easy to use

- Compact elegant design, less than 25kg, easy for installation
- Support wireless and wired internet connection (RS485, Wi-Fi/GPRS/LAN optional)
- Remote upgrading available
- Intelligent positioning abnormal string with integrated I/V scan function

TECHNICAL PARAMETERS

THREE PHASE:STT-4K/5K/6K/8K/10K/12K/15K/17K/20K/25KTL

Model	STT-4KTL	STT-5KTL	STT-6KTL	STT-8KTL	STT-10KTL	STT-12KTL	STT-15KTL	STT-17KTL	STT-20KTL	STT-25KTL
Input										
Max. Input Power (W)	5,200	6,500	7,800	10,400	13,000	15,600	19,500	22,100	26,000	32,500
Start-up Voltage (V)	200	200	200	200	200	200	200	200	200	200
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
Rated DC Input Voltage (V)	620	620	620	620	620	620	620	620	620	620
MPPT Voltage Range (V)	200-950	200-950	200-950	200-950	200-950	200-950	200-950	200-950	200-950	200-950
Full Power MPPT Voltage Range (V)	200-850	240-850	280-850	370-850	470-850	560-850	470-850	400-850	470-850	585-850
No. of MPP Trackers	2	2	2	2	2	2	2	2	2	2
No. of DC Inputs per MPPT	1/1	1/1	1/1	1/1	1/1	1/1	1/2	2/2	2/2	2/2
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11	11/11	11/22	22/22	22/22	22/22
Max. Short-circuit Current (A)	15/15	15/15	15/15	15/15	15/15	15/15	15/30	30/30	30/30	30/30
Output										
Rated Output Power (kW)	4	5	6	8	10	12	15	17	20	25
Max. Output Power (kW)	4.4	5.5	6.6	8.8	11	13.2	16.5	18.7	22	25
Max. Apparent Power (kVA)	4.4	5.5	6.6	8.8	11	13.2	16.5	18.7	22	25
Rated Output Voltage (V)	3L/N/PE, 230/400V									
Rated AC Frequency (Hz)	50/60									
Max. Output Current (A)	6.7	8.4	10	13.3	16.5	20	25	28.4	31.9	39
Power Factor	0.8 leading ∙∙0.8 lagging									
Max. Total Harmonic Distortion	<3% @Rated Output Power									
DCI	<0.5%In									
Efficiency										
Max. Efficiency	98.1%	98.1%	98.3%	98.3%	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%
European Efficiency	97.9%	97.9%	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection										
DC Reverse Polarity Protection	Integrated									
Insulation Resistance Protection	Integrated									
DC Switch	Integrated									
Surge Protection	Integrated									
Over-temperature Protection	Integrated									
Residual Current Protection	Integrated									
Anti-islanding Protection	Integrated									
AC Short-circuit Protection	Integrated									
AC Over-voltage Protection	Integrated									
General Data										
Dimensions (mm)	550W*410H*175D									
Weight (KG)	22						25			
Protection Degree	IP65									
Self-consumption at Night (W)	< 1									
Topology	Transformer-less									
Operating Temperature Range (° C)	-30~60°C									
Relative Humidity	0~100%									
Operating Altitude (m)	4000 (derating@ > 3000)									
Cooling	Natural Convection							Smart Fan Cooling		
Noise Level (dB)	< 25						< 40			
Display	OLED & LED									
Communication	RS485, WiFi/GPRS/LAN(Optional)									
Compliance	NB/T32004、IEC62109、IEC62116、VDE4105、VDE0126、AS4777、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000									