

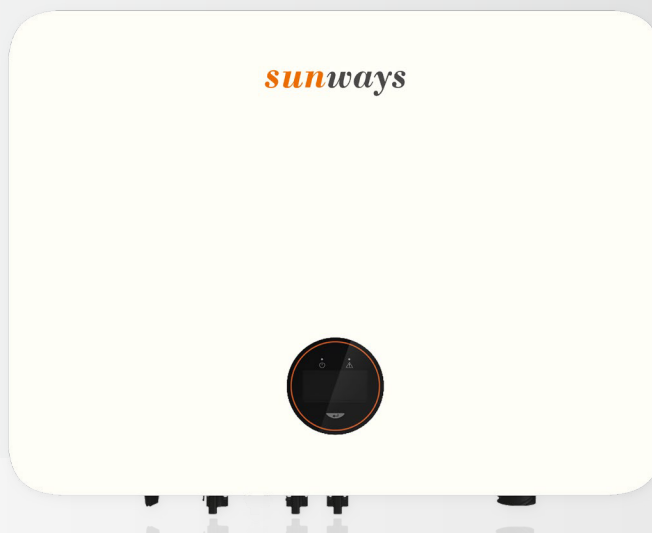


Sunways Single Phase with Dual MPPT

STS-7K~11KTL

MAX 98.1% EFFICIENCY

IP65 PROTECTION



SAFE & RELIABLE

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



HIGH YIELD

- High yield with Max. 98.1% efficiency
- European weighted efficiency 97.6%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- With a max input current of 15A, compatible with high-power panels



EASY TO USE

- Plug and play connectors, easy for installation
- Support wireless and wired internet connection (RS485/WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

TECHNICAL PARAMETERS

SINGLE PHASE:STS-7K~11KTL

Model	STS-7KTL	STS-8KTL	STS-9KTL	STS-10KTL	STS-11KTL
Input					
Max. Input Power (W)	11,200	12,800	14,400	16,000	16,000
Start-up Voltage (V)	80	80	80	80	80
Max. DC Input Voltage (V)	600	600	600	600	600
Rated DC Input Voltage (V)	360	360	360	360	360
MPPT Voltage Range (V)	80~550	80~550	80~550	80~550	80~550
No. of MPP Trackers	2	2	2	2	2
No. of DC Inputs per MPPT	1/2	1/2	1/2	1/2	1/2
Max. Input Current (A)	15/30	15/30	15/30	15/30	15/30
Max. Short-circuit Current (A)	20/40	20/40	20/40	20/40	20/40
Backfeed current to the Array(A)	0	0	0	0	0
Output					
Rated Output Power (W)	7,000	8,000	9,000	10,000	11,000
Max. Output Power (W)	7,700	8,800	9,900	11,000	11,000
Rated Apparent Power (VA)	7,000	8,000	9,000	10,000	11,000
Max. Apparent Power (VA)	7,700	8,800	9,900	11,000	11,000
Rated Output Voltage (V)	220/230				
Rated AC Frequency (Hz)	50/60				
AC output rated current (A)	30.4	34.8	39.1	43.5	47.8
Max. Output Current (A)	33.5	38.3	43	47.8	47.8
The measured Inrush current (A)	24.2A@45μs	24.2A@45μs	24.2A@45μs	26.1@48μs	26.1@48μs
Maximum output fault current (A)	80	80	90	90	90
Maximum output overcurrent protection (A)	80	80	90	90	90
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%	98.1%	98.1%	98.1%
European Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Protection					
Protective Class of Equipment	Class 1				
DC Reverse Polarity Protection	Integrated				
Insulation Resistance Protection	Integrated				
DC Switch	Optional				
Surge Protection	Integrated				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Islanding Protection	Integrated , Frequency shift				
AC Short-circuit Protection	Integrated				
Overvoltage Category	Integrated , Mains:OVC III PV:OVC II				
General Data					
Dimensions (mm)	550W*410H*175D				
Weight (KG)	24	26			
Protection Degree	IP65				
Self-consumption at Night (W)	< 1				
Topology	Transformer less				
Operating Temperature Range (oC)	-30~60				
Relative Humidity (%)	0~100				
Operating Altitude (m)	4000 (depreciativo@ > 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、UTE C15-712-1、AS4777、C10/11、CEI0-21、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000				
Country Of Manufacturer	China				