



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





- High yield with Max. Efficiency 98.8%
- European weighted efficiency 98.3%
- Up to 10% continuous output overloading capacity
- Six MPPT design, lower PV string mismatch loss
- DC 2 in 1 connection enabled, compatible with high-power panels







- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available



Input Max. Input Power (W) 80,000 96,000 Max. Diput Violage (V) 200 200 Max. Diput Violage (V) 1,100 1,100 Mast Clipput Violage (V) 6,20 6,20 MPFT Violage Range (V) 160-1000 160-1000 Number of Disput Systems 6 6 6 Mex. Proviolage Range (V) 2,02 2 2 2 Max. Disput System (A) 2,02 6/26/26/26/26/6 2,02 2 2 Max. Disput System (A) 2,02 6/26/26/26/26/6 2,02 2 2 Max. Disput System (A) 2,02 6/26/26/26/26/6 2,02 2 2 Rated Duri All Systems 5,000 4,04 6/24/26/40/20 2 Object Current (A) 5,5000 6,6000 4,000	Model	STT-50KTL-P	STT-60KTL-P
Stort-up Voltage (V)	Input		
Max DC Input Voltage (V) 620 620 Raded DC Input Voltage (V) 620 620 Number of MPP Trackers 6 6 Number of DC Inputs per MPPT 2 2 Number of DC Inputs per MPPT 2 2 Max Short-circuit Current (A) 42/42/62/22/22/62/6-6 26/22/22/22/62/6-6 Max Short-circuit Current (A) 43/40/40/40/40/40 40/40/40/40/40/40 Max Short-circuit Current (A) 43/40/40/40/40/40 40/40/40/40/40/40 Max Dought Power (W)* 50,000 60,000 Max Dutput Power (W)* 50,000 60,000 Max Dutput Power (W) 50,000 60,000 Max Dutput Power (W)* 50,000 60,000 Max Dutput Current (A) 50,000 60,000 Max Dutput Current (A) 83.6 95.3 Max Efficiency 96.8% <t< td=""><td>Max. Input Power (W)</td><td>80,000</td><td>96,000</td></t<>	Max. Input Power (W)	80,000	96,000
Rated DC Input Voltage (V) 620 620 MPDT Voltage Range (V) 160-1000 160-1000 Number of MPDT Faceles 6 6 Number of DC Inputs per MPDT 2 2 Max. Ront-circuit Current (A) 25/25/25/25/25/26 25/25/25/25/25/26 Max. Ront-circuit Current (A) 40/40/40/40 40/40/40/40/40 Output 40/40/40/40/40 40/40/40/40/40/40 Output Power (M)** 50,000 60,000 Max. Apparent Rower (NA) 55,000 66,000 Max. Apparent Rower (NA) 55,000 66,000 Max. Apparent Rower (NA) 55,000 66,000 Max. Edition (V) 83.6 95.3 Rated AC Frequency (H2) 83.6 95.3 Max. Edition (V) 83.6 95.3 Power Factor 0.8 leading0.8 legging THD (B Rated Rower 98.8% 98.8% Efficiency 98.8% 98.8% Entitle (Entition) 99.9% 99.9% POTE (Efficiency 98.3% 98.3% Max. Efficiency <td>Start-up Voltage (V)</td> <td>200</td> <td>200</td>	Start-up Voltage (V)	200	200
MPPT Voltage Range (V)	Max. DC Input Voltage (V)	1,100	1,100
Number of NEP Trackers 6 6 6 Number of DC Inputs per MPPT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Rated DC Input Voltage (V)	620	620
Number of DC Inputs per MPPT Ask Input Current (A)	MPPT Voltage Range (V)	160-1000	160-1000
Max. Input Current (A) 26/26/26/26/26/26 26/26/26/26/26/26 Max. Short-circuit Current (A) 40/40/40/40/40 40/40/40/40/40/40 Output 40/40/40/40/40/40/40 40/40/40/40/40/40/40 Rated Output Power (W)** \$0,000 60,000 Max. Output Power (W) \$5,000 66,000 Max. Apparent Power (W) \$5,000 66,000 Max. Output Current (A) \$5,000 66,000 Max. Output Current (A) \$3.4 95.3 Max. Output Current (A) \$4.8 \$9.8% 98.8% Euro Efficiency \$9.83% </td <td>Number of MPP Trackers</td> <td>6</td> <td>6</td>	Number of MPP Trackers	6	6
Mox. Short-circuit Current (A) 40/40/40/40/40/40 40/40/40/40/40 Output Wasted Output Power (W)** 50,000 60,000 Max. Output Power (W) 65,000 66,000 Max. Output Voltage (W)** 3UNVPE_230/400V Rated AC Frequency (Hz) 55,000 66,000 Max. Output Current (A) 83.6 95.3 Max. Output Current (A) 83.6 95.3 Power Factor 0.8 leading	Number of DC Inputs per MPPT	2	2
Output Rated Output Power (W)** \$0,000 60,000 Max. Output Power (W)** \$5,000 66,000 Max Apparent Power (W) \$5,000 66,000 Rated Output Voltage (V)*** 3U/NVPE, 230/400V Rated AC Fequency (Hz) \$0/60 45-58/55-65 Max. Output Current (A) 83.6 95.3 Power Factor 0.8 leading	Max. Input Current (A)	26/26/26/26/26 ^①	26/26/26/26/26 ^①
Rated Output Power (W)** \$5,000 \$6,000 Max. Output Power (W) \$5,000 \$6,000 Max. Apparent Power (W) \$5,000 \$6,000 Rated Output Voltage (V)** \$1,000 \$6,000 Rated Output Voltage (V)** \$1,000 \$1,000 Rated AC Frequency (Hz) \$0,000 \$0,000 Rated AC Frequency (Hz) \$0,000 \$0,000 Rated AC Frequency (Hz) \$0,000 \$0,000 Max. Output Current (A) \$83.6 \$95.3 Power Factor \$0.8 leading 0.8 legging THD (@ Rated Power \$3,000 \$0.000 THD (@ Rated Power \$3,000 \$0.000 THD (@ Rated Power \$1,000 \$1,000 The Power Factor \$1,000 The Power Factor \$1,000 \$1,000 The Po	Max. Short-circuit Current (A)	40/40/40/40/40	40/40/40/40/40
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Max. Apparent Power (VA) 55,000 66,000 Rated Output Voltage (V)** 3L/N/FE, 230/400V Rated AC Frequency (Hz) 50/60 45-55/5-65 Max. Output Current (A) 83.6 95.3 Power Factor 0.8 leading0.8 lagging THDI @ Rated Power <3%	Rated Output Power (W)**	50,000	60,000
Rated Output Voltage (V)** 3L/N/PE, 230/400V Rated AC Frequency (Hz) 50/40 45-56/55-65 Max. Output Current (A) 83.6 95.3 Power Factor 0.8 leading0.8 lagging THDI @ Rated Power - - DCI < 0.5% In	Max. Output Power (W)	55,000	66,000
Rated AC Frequency (Hz) 50/60 45-55/55-65 Max. Output Current (A) 83.6 95.3 Power Factor 0.8 leading 0.8 lagging THDI © Rated Power <3% CP CP Efficiency Max. Max. Max. Max. Max. Max	Max. Apparent Power (VA)	55,000	66,000
Max. Output Current (A) 83.6 95.3 Power Factor 0.8 leading0.8 lagging ThID (B. Rated Power) 3% CI < 0.5 km	Rated Output Voltage (V)**	3L/N/PE, 230/400V	
Power Factor 0.8 leadings0.8 lagging THDi @ Rated Power <3% DCI <0.5% In Efficiency Was. Efficiency 98.8% 98.8% Euro Efficiency 98.3% 98.3% MPPT Efficiency 99.9% 99.9% Protection Integrated DC Reverse Polarity Protection Integrated Integrated C Switch Optional Surge Protection Integrated Over-temperature Protection Integrated Over-temperature Protection Integrated AC Sidual Current Protection Integrated AC Short-circuit Protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Integrated Separated AC Over-voltage Protection Integrated Separate Protection Beight (kg) 850*520*290 Weight (kg) 58 Protec			
THDI @ Rated Power Carlo		83.6	95.3
THDI @ Rated Power Control Co	Power Factor	 0.8 leading0.8 lagging	
Efficiency 98.8% 98.8% Euro Efficiency 98.3% 98.3% MPPT Efficiency 99.9% 99.9% Protection DC Reverse Polarity Protection Integrated Insulation Resistance Detection Integrated DC Switch Optional Surge Protection Optional Surge Protection Integrated Over-temperature Protection Integrated Residual Current Protection Integrated AC Short-circuit Protection Integrated AC Short-circuit Protection Integrated AC Over-voltage Protection Integrated General Data Self-consumption of Wirth D (mm) 850°520°290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1	THDi @ Rated Power		
Max. Efficiency 98.8% 98.3% Euro Efficiency 98.3% 98.3% MPPT Efficiency 99.9% 99.9% Protection DC Reverse Polarity Protection Integrated Insulation Resistance Detection Integrated DC Switch Optional 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 AC Over-voltage Protection Integrated Begint (kg) 85 Protection Degree IP65 Self-consumption at Night (W) < 1	DCI	< 0.5% In	
Euro Efficiency 98.3% 98.3% MPPT Efficiency 99.9% 99.9% Protection DC Reverse Polarity Protection Integrated Insulation Resistance Detection Integrated DC Switch Optional Surge Protection Integrated Over-temperature Protection Integrated Residual Current Protection Integrated Anti-islanding protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Integrated General Data Integrated General Data S8 Protection Degree IP65 Self-consumption at Night (W) < 1	Efficiency		
MPT Efficiency 99.9% 99.9% Protection DC Reverse Polarity Protection Integrated Insulation Resistance Detection Optional Surge Protection Integrated Over-temperature Protection Integrated Residual Current Protection Integrated Anti-islanding protection Integrated AC Short-circuit Protection Integrated AC Short-circuit Protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Integrated Sequenal Data Dimensions [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range ("C) -30~60 Relative Humidity (%) 0~100 Operating Altitude (m) 4000 (derating > 3000)	Max. Efficiency	98.8%	98.8%
Protection DC Reverse Polarity Protection Integrated Insulation Resistance Detection Optional 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 AC Over-voltage Protection Integrated Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (°C) Relative Humidity (%) O-100 Operating Attitude (m) 4000 (derating > 3000)	Euro Efficiency	98.3%	98.3%
DC Reverse Polarity Protection Integrated Insulation Resistance Detection Integrated DC Switch Optional Surge Protection Integrated Over-temperature Protection Integrated Over-temperature Protection Integrated Residual Current Protection Integrated Anti-islanding protection Integrated Anti-islanding protection Integrated AC Short-circuit Protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Integrated Weight (kg) S8 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (°C) Relative Humidity (%) O-100 Operating Altitude (m) 4000 (derating > 3000)	MPPT Efficiency	99.9%	99.9%
Insulation Resistance Detection DC Switch Optional Surge Protection Integrated Over-temperature Protection Residual Current Protection Integrated Anti-islanding protection Anti-islanding protection Integrated AC Short-circuit Protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Semeral Data Dimensions [W*H*D] (mm) S50*520*290 Weight (kg) S8 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (*C) Relative Humidity (%) Operating Altitude (m) Integrated Optional Integrated I	Protection		
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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 AC Over-voltage Protection Integrated General Data Dimensions [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (°C) -30~60 Relative Humidity (%) 0~100 Operating Altitude (m) 4000 (derating > 3000)	Insulation Resistance Detection	-	
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 [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1	DC Switch		
Residual Current Protection Integrated Anti-islanding protection Integrated AC Short-circuit Protection Integrated AC Over-voltage Protection Integrated AC Over-voltage Protection Integrated General Data Dimensions [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (°C) -30~60 Relative Humidity (%) 000 (derating > 3000)	Surge Protection	Integrated	
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AC Short-circuit Protection Integrated AC Over-voltage Protection Integrated General Data Dimensions [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (°C) -30~60 Relative Humidity (%) 0 Operating Altitude (m) 4000 (derating > 3000)	Residual Current Protection	Integrated	
AC Over-voltage Protection Integrated General Data 850*520*290 Dimensions [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1	Anti-islanding protection	Integrated	
General Data Dimensions [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1	AC Short-circuit Protection	Integrated	
Dimensions [W*H*D] (mm) 850*520*290 Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1	AC Over-voltage Protection	Integrated	
Weight (kg) 58 Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (°C) -30~60 Relative Humidity (%) 0~100 Operating Altitude (m) 4000 (derating > 3000)	General Data		
Protection Degree IP65 Self-consumption at Night (W) < 1 Topology Transformerless Operating Temperature Range (°C)	Dimensions [W*H*D] (mm)	850*520*290	
Self-consumption at Night (W) Topology Transformerless Operating Temperature Range (°C) Relative Humidity (%) Operating Altitude (m) Self-consumption at Night (W) -30~60 0~100 4000 (derating > 3000)	Weight (kg)	58	
Topology Transformerless Operating Temperature Range (°C) -30~60 Relative Humidity (%) 0~100 Operating Altitude (m) 4000 (derating > 3000)	Protection Degree	IP65	
Operating Temperature Range (°C) Relative Humidity (%) Operating Altitude (m) 4000 (derating > 3000)	Self-consumption at Night (W)	<1	
Relative Humidity (%) 0~100 Operating Altitude (m) 4000 (derating > 3000)	Topology	Transformerless	
Operating Altitude (m) 4000 (derating > 3000)	Operating Temperature Range (°C)	-30~60	
	Relative Humidity (%)	0~100	
Cooling Smart Fan Cooling	Operating Altitude (m)	4000 (derating > 3000)	
	Cooling	Smart Fan Cooling	
Noise Level (dB) < 55	Noise Level (dB)	< 55	
Display OLED & LED	Display	OLED & LED	
Communication RS485, WiFi/GPRS/LAN (Optional)	Communication	RS485, WiFi/GPRS/LAN (Optional)	

① STT-50/60KTL series maxmium input current per MPPT is 22A, products deliver upon the oder.

 $^{** \ \, \}text{Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.}$