

Single Phase
PV String Inverter
1-3 kW



Single Phase
PV String Inverter
3-6 kW



Single Phase
PV String Inverter
7-10 kW



■ Technical Data	SW1KTL-EU	SW1.5KTL-EU	SW2KTL-EU	SW2.5KTL-EU	SW3KTL-EU1	SW3KTL-EU	SW3.6KTL-EU	SW4KTL-EU	SW4.9KTL-EU	SW5KTL-EU	SW6KTL-EU	SW7KTL-EU	SW8KTL-EU	SW9KTL-EU	SW10KTL-EU		
PV Input Data																	
Max. DC Power (W)	1500	2250	3000	3750	4200	4500	5400	6000	7000	7000	8400	9800	11200	12600	14000		
Max. DC Voltage (V)	500	500	500	500	500	600	600	600	600	600	600	600	600	600	600		
MPPT Voltage Range (V)	50 -500	50 -500	50 -500	50 -500	50 -500	70 -550	70 -550	70 -550	70 -550	70 -550	70 -550	70 -550	70 -550	70 -550	70 -550		
MPPT Full Power Voltage Range (V)	70 -500	110 -500	145 -500	180 -500	220 -500	110 -550	130 -550	145 -550	180 -550	180 -550	220 -550	220 -550	220 -550	220 -550	220 -550		
Rated Input Voltage (V)	360					360					360						
Start-up Voltage (V)	50					70					70						
Max. Input Current (A)	14					14 x 2					14+26					26+26	
Max. Short Current (A)	18					18 x 2					18+35					35+35	
No. of MPP Tracker / No. of PV String	1/1					2/2					2/3					2/4	
Input Connector Type	MC4					MC4					MC4						
AC Output Data																	
Max. Output Power (VA)	1100 ^{*2}	1650 ^{*2}	2200 ^{*2}	2750 ^{*2}	3300 ^{*2}	3300 ^{*2}	3960 ^{*2}	4400 ^{*2}	4950	5500 ^{*2}	6600 ^{*2}	7700	8800	9900	11000		
Nominal Output Power (W)	1000	1500	2000	2500	3000	3000	3600	4000	4950	5000	6000	7000	8000	9000	10000		
Max. Output Current (A)	6	9	12	13	15	15	17.5	20	24	24	28.7	33.6	38.3	45	50		
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac					L/N/PE, 220Vac, 230Vac, 240Vac					L/N/PE, 220Vac, 230Vac, 240Vac						
Grid Voltage Range	180Vac-276Vac (According to local standard)					180Vac-276Vac (According to local standard)					180Vac-276Vac (According to local standard)						
Nominal Output Frequency (Hz)	50/60					50/60					50/60						
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)					45-55Hz/54-66Hz (According to local standard)					45-55Hz/54-66Hz (According to local standard)						
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					1 default (adjustable from 0.8 leading to 0.8 lagging)					1 default (adjustable from 0.8 leading to 0.8 lagging)						
Output Current THD	<3%					<3%					<3%						
Efficiency																	
Max. Efficiency	97.50%	97.80%	98.10%	98.10%	98.13%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.32%	98.40%		
Euro Efficiency	96.60%	96.70%	96.80%	97.23%	97.56%	97.80%	97.82%	97.85%	97.90%	97.90%	97.92%	97.95%	98.00%	98.00%	98.10%		
Protection																	
PV Reverse Polarity Protection	YES					YES					YES						
PV Insulation Resistance Detection	YES					YES					YES						
AC Short Circuit Protection	YES					YES					YES						
AC Over Current Protection	YES					YES					YES						
AC Over Voltage Protection	YES					YES					YES						
Anti-Islanding Protection	YES					YES					YES						
Residual Current Detection	YES					YES					YES						
Over Temperature Protection	YES					YES					YES						
Integrated DC switch	YES					YES					YES						
Surge Protection	Integrated (Type III)					Integrated (Type III)					Integrated (Type III)						
Smart IV Curve Scanning	YES					YES					YES						
Quick Arc Fault Circuit Interruption	Optional					Optional					Optional						
General Data																	
Dimensions (W x H x D, mm)	280 x 260 x 116					358 x 360 x 142					370 x 510 x 192		370 x 535 x 192				
Weight (kg)	6					10					17		18				
Protection Degree	IP65					IP65					IP65						
Enclosure Material	Aluminum					Aluminum					Aluminum						
Ambient Temperature Range (°C)	-25 -+60					-25 - +60					-25 - +60						
Humidity Range	0 -100%					0 -100%					0 -100%						
Topology	Transformerless					Transformerless					Transformerless						
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					RS485 / WiFi / Wire Ethernet / GPRS (optional)					RS485 / WiFi / Wire Ethernet / GPRS (optional)						
Cooling Concept	Convection					Convection					Convection		Intelligent fan cooling				
Noise Emission (db)	<21					<28					<40						
Night Power Consumption (W)	<0.2	<0.2	<1	<1	<1	<1					<1						
Max. Operation Altitude (m)	4000					4000					4000						
Certifications and Standards																	
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12									EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12							
Safety Standard	IEC 60068, UL1741, EN62109									IEC 60068, UL1741, EN62109							
Grid connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727									IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727							

*1. SW4.9KTL-EU model is exclusive for Belgium
*2. For Belgium Max. Output Power(VA) 1000w-6000w;