

## SE 7/8/10KTL-D1P

Application: Residential Use



### Superior Performance

- Maximum efficiency of 98.2%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



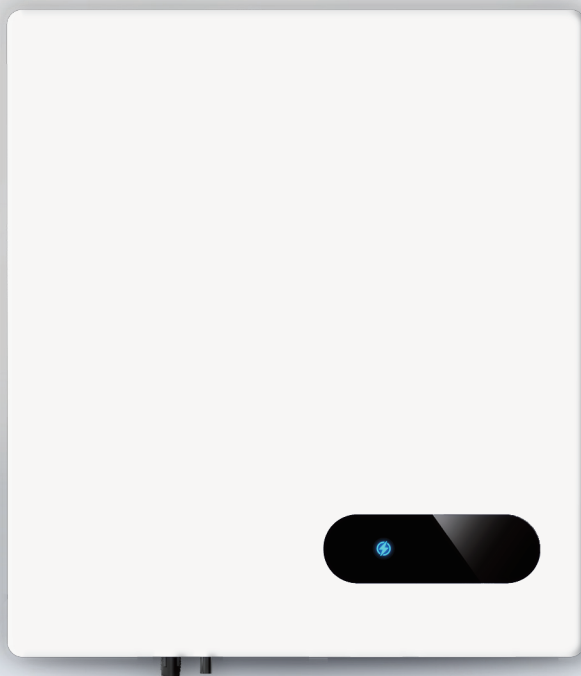
### High Reliability

- IP65 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI 2.0 function

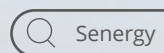


### Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations



SINGLE  
PHASE &  
DUAL  
MPPT



	SE 7KTL-D1P	SE 8KTL-D1P	SE 10KTL-D1P
<b>Efficiency</b>			
Max. Efficiency	98.2%		
European Efficiency	97.5%		
<b>Input (PV)</b>			
Max. Input Voltage	550V		
Max. PV Configuration (STC)	150%		
Rated Input Voltage	360V		
Max. Input Current	20A/20A	20A/30A	20A/30A
Max. Short Circuit Current	20A/20A	20A/40A	20A/40A
Start Input Voltage	90V		
MPPT Operating Voltage Range	60V-540V		
Max. Number of PV Strings	1/1	1/2	1/2
No. of MPPTs	2		
<b>Output (Grid)</b>			
Rated AC Active Power	7,000W	8,000W	10,000W
Max. AC Apparent Power	7,700VA	8,800VA	10,000VA
Max. AC Output Current	35A	40A	45.5A
Rated AC Voltage	220V/230V/240V, L+N+PE		
AC Voltage Range <sup>①</sup>	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz/60Hz		
Grid Frequency Range <sup>②</sup>	45Hz-55Hz/55Hz-65Hz (Adjustable)		
THDI	<3%@Rated Power		
DC Current Injection	<0.5%In		
Power Factor	>0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)		
<b>Protection</b>			
DC Switch	Yes		
Anti-islanding Protection	Yes		
AC Overcurrent Protection	Yes		
AC Short Circuit Protection	Yes		
DC Reverse Protection	Yes		
Surge Arrester	DC Type III (Type II optional)/AC Type III (Type II optional)		
Insulation Detection	Yes		
Leakage Current Protection	Yes		
<b>General</b>			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	< 1W (Standard)		
Cooling Method	Natural Cooling		
Operating Temperature Range	-25°C~60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Dimensions (W*H*D)	400mm*450mm*170mm		
Weight	16kg		
<b>HMI &amp; COM</b>			
Display	Wireless & APP+LED, LCD (Optional)		
Communication Interface	Optional: Wi-Fi/GPRS/RS485/LAN		
<b>Certification</b>			
Safety	IEC 62109-1, IEC 62109-2		
Grid Code	DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1		
Warranty	5 Years		

Remarks: · <sup>①②</sup>The range of output voltage and frequency may vary depending on different grid codes.  
· Specifications are subject to change without advanced notice.