

SINGLE PHASE & DUAL MPPT

SE 7/8/10KTL-D1P

Application: Family Use



SUPERIOR EFFICIENCY

- Maximum efficiency of 98.2%
- String current of 20A, compatible with high power modules
- 150% PV configuration and 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof
- Compatible with a wide range of power grid voltage and high harmonic power grid environments
- Optional DC/AC SPD, AFCI detection and C5 anti-corrosion features for added protection



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Power export control supported

Model	SE 7KTL-D1P	SE 8KTL-D1P	SE 10KTL-D1P
Efficiency			
Max. Efficiency	98.2%	98.2%	98.2%
European Efficiency	97.4%	97.5%	97.6%
Input(PV)			
Max. Input Voltage	550V		
Max. PV Configuration (STC)	150%		
Rated Input Voltage	360V		
Max. Input Current	40A (2*20A)	50A (2*15A+20A)	
Max.Short Circuit Current	52A (2*26A)	66A (2*20A+26A)	
Start Input Voltage	90V		
MPPT Operating Voltage Range	70V-540V		
Max. Number of PV Strings	2 (1/1)	3 (2/1)	
No. of MPPTs	2		
Output(Grid)			
Rated AC Active Power	7,000W	8,000W	10,000W
Max. AC Apparent Power	7,700VA	8,800VA	10,000VA
Max. AC Active Power (PF=1)	7,700W	8,800W	10,000W
Max. AC Output Current	35A	40A	45.5A
Rated AC Voltage	220V/230V, L+N+PE		
AC Voltage Range①	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range②	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)		
Protection			
DC Switch	Support		
Anti-Islanding Protection	Support		
AC Overcurrent Protection	Support		
AC Short Circuit Protection	Support		
DC Reverse Connection	Support		
Surge Arrester	DC Type III (Optional) / AC Type III		
Insulation Detection	Support		
Leakage Current Protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Natural cooling		
Operating Temperature Range	-25°C-60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise (typical)	30dB		
Dimensions (W*H*D)	400mm*450mm*170mm		
Weight	16Kg		
HMI & COM			
Display	Wireless & APP+LED, LCD (Optional)		
Communication	Optional: WiFi / GPRS / RS485 / LAN		
Certification			
Safety	IEC62109-1, IEC62109-2		
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 : • ①②The range of output voltage and frequency may vary depending on different grid codes.
• Specifications are subject to change without advanced notice.