

PV L1 Series

Single Phase On-grid

PV 7/8/10KTL-D1P

Application: Family Use



SUPERIOR EFFICIENCY

- Maximum efficiency 98.2%
- String current 18A, compatible with high power modules
- 133% PV configuration, 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof, C5 anti-corrosion
- Compatible with wide power grid voltage and high harmonic power grid environment
- DC /AC SPD optional, AFCI detection optional



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Supports export power control

Model	PV 7KTL-D1P	PV 8KTL-D1P	PV 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) ①	133%		
Rated Input Voltage	360V		
Max. Input Current	36A (2*18A)	50A (2*15A+20A)	
Max.Short Circuit Current	52A (2*26A)	66A (2*20A+26A)	
Start Input Voltage	90V		
MPPT Operating Voltage Range	60V-550V		
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
Rated Apparent Power	7,000VA	8,000VA	10,000VA
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 Range ②	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range ③	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDI	<3% (Rated Power)		
DC Current Injection	<0.5In		
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		
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, AS 4777, VDE 0126-1		
Warranty	10 Years		
Country of Original	China		

- Remarks:**
- ①STC: Standard Test Condition
 - ②③The range of output voltage and frequency may vary depending upon different grid codes.
 - Specifications are subject to change without advance notice.