

PV L1 SERIES | SINGLE PHASE & DUAL MPPT

PV 7/8/10KTL-D1P

Application: Residential Use



150% DC input oversizing



Compatible large PV panels



Arc-fault circuit interrupter Optional



Shade smart



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Model	PV 7KTL-D1P	PV 8KTL-D1P	PV 10KTL-D1P
Efficiency			
Max. Efficiency		98.2%	
European Efficiency		97.5%	
Input (PV)			
Max. Input Voltage		600V	
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		60V-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 Output Current	35A	40A	45.5A
Rated AC Voltage	220V/230V, L+N+PE		
AC Voltage Range ^①	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range ^②	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		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	
General			
Topology		Transformerless	
IP Rating		IP65	
Night Self Consumption		< 1W (Standard)	
Cooling		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	
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			
Country of Manufacture		10 Years	China

- Remarks:**
- ^{①②}The range of output voltage and frequency may vary depending on different grid codes.
 - Specifications are subject to change without advanced notice.