

PV H3 Series

Three Phase On-grid

PV 5/6/8/10/12/15KTL-D3/G2

Application: Small-sized Industrial and Residential Use



SUPERIOR EFFICIENCY

- Maximum efficiency 98.3%
- Max String Current 20A, compatible with 600W+ modules
- 133% PV configuration, 110% output overload



HIGH RELIABILITY

- Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion
- DC /AC SPD, AFCI detection optional
- Compatible with wide power grid voltage and high harmonic power grid environment



INTELLIGENT MAINTENANCE

- App quick commissioning
- Remote configuration and upgrade
- Supports export control

Model	PV 5KTL-D3/G2	PV 6KTL-D3/G2	PV 8KTL-D3/G2	PV 10KTL-D3/G2	PV 12KTL-D3/G2	PV 15KTL-D3/G2
Efficiency						
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%	98.3%
European Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%
Input (PV)						
Max. Input Voltage	1100V					
Max. PV configuration (STC) ①	133%					
Rated Input Voltage	620V					
Max. Input Current	2*15A			2*15A+15A		
Max.Short Circuit Current	2*20A			2*20A+20A		
Start Input Voltage	180V					
MPPT Operating Voltage Range	160V-1000V					
Max. Number of PV Strings	2 (1/1)			3 (2/1)		
No. of MPPTs	2					
Output (Grid)						
Rated AC Active Power	5,000W	6,000W	8,000W	10,000W	12,000W	15,000W
Rated Apparent Power	5,000VA	6,000VA	8,000VA	10,000VA	12,000VA	15,000VA
Max. AC Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA
Max. AC Active Power (PF=1)	5,500W	6,600W	8,800W	11,000W	13,200W	16,500W
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*16.8A	3*20.2A	3*25.3A
Rated AC Voltage	380V / 400V / 415V, 3W+N+PE					
AC Voltage Range ②	260V-510V (Adjustable)					
Rated Grid Frequency	50Hz / 60Hz					
Grid Frequency Range ③	45Hz-55Hz / 55Hz-65Hz (Adjustable)					
THDI	<3% @ Rated Power					
DC Current Injection	<0.5% @ Rated Current					
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	AC Type III (Type II optional) / DC Type III (Type II optional)					
Insulation detection	Support					
String current detection	Support					
Leakage current protection	Support					
General						
Topology	Transformerless					
IP Rating	IP66					
Night Self Consumption	<1W					
Cooling	Natural cooling					
Operating Temperature Range	-25°C-60°C					
Relative Humidity Range	0-100%					
Max. Operating Altitude	4000m					
Noise	<30dB					
Dimensions (W*H*D)	398mm*460mm*190mm					
Weight	16.8Kg			18.7Kg		
HMI & COM						
Display	Wireless & APP +LED, LCD (Optional)					
Communication	RS485, Optional: WiFi / GPRS / 4G					
Certification						
Safety	IEC62109-1, IEC62109-2					
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001, IEC 61727/62116, AS 4777					
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.

PV H3 Series

Three Phase On-grid

PV 10/15KTL-D3/G2P, PV 17/20/22/25KTL-D3/G2

Application: Small-sized Industrial and Residential Use



SUPERIOR EFFICIENCY

- Maximum efficiency 98.4%
- Max String Current 20A, compatible with 600W+ modules
- 133% PV configuration, 110% output overload



HIGH RELIABILITY

- Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion
- DC /AC SPD, AFCI detection optional
- Compatible with wide power grid voltage and high harmonic power grid environment



INTELLIGENT MAINTENANCE

- App quick commissioning
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- Supports export control

Model	PV 10KTL-D3/G2P	PV 15KTL-D3/G2P	PV 17KTL-D3/G2	PV 20KTL-D3/G2	PV 22KTL-D3/G2	PV 25KTL-D3/G2	
Efficiency							
Max. Efficiency	98.3%	98.4%	98.4%	98.4%	98.4%	98.4%	
European Efficiency	97.8%	98.0%	98.0%	98.0%	98.0%	98.0%	
Input (PV)							
Max. Input Voltage	1100V						
Max. PV configuration (STC) ①	133%						
Rated Input Voltage	620V						
Max. Input Current	30A+15A					2*30A	
Max.Short Circuit Current	40A+20A					2*40A	
Start Input Voltage	180V						
MPPT Operating Voltage Range	160V-1000V						
Max. Number of PV Strings	3 (2/1)					4 (2/2)	
No. of MPPTs	2						
Output (Grid)							
Rated AC Active Power	10,000W	15,000W	17,000W	20,000W	22,000W	25,000W	
Rated Apparent Power	10,000VA	15,000VA	17,000VA	20,000VA	22,000VA	25,000VA	
Max. AC Apparent Power	11,000VA	16,500VA	18,700VA	22,000VA	24,200VA	27,500VA	
Max. AC Active Power (PF=1)	11,000W	16,500W	18,700W	22,000W	24,200W	25,000W	
Max. AC Output Current	3*16.8A	3*25.3A	3*28.6A	3*33.7A	3*37A	3*39.8A	
Rated AC Voltage	380V / 400V / 415V, 3W+N+PE						
AC Voltage Range ②	260V-510V (Adjustable)						
Rated Grid Frequency	50Hz / 60Hz						
Grid Frequency Range ③	45Hz-55Hz / 55Hz-65Hz (Adjustable)						
THDI	<3% @ Rated Power						
DC Current Injection	<0.5% @ Rated Current						
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	AC Type III (Type II optional) / DC Type III (Type II optional)						
Insulation detection	Support						
String current detection	Optional						
Leakage current protection	Support						
General							
Topology	Transformerless						
IP Rating	IP66						
Night Self Consumption	<1W						
Cooling	Natural cooling					Fan cooling	
Operating Temperature Range	-25°C-60°C						
Relative Humidity Range	0-100%						
Max. Operating Altitude	4000m						
Noise	<45dB						
Dimensions (W*H*D)	398mm*460mm*190mm						
Weight	18.7Kg					20.1Kg	20.3Kg
HMI & COM							
Display	Wireless & APP +LED, LCD (Optional)						
Communication	RS485, Optional: WiFi / GPRS / 4G						
Certification							
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