

Single Phase Low-Voltage Hybrid Inverter

7.0 / 8.0 / 10.0 kW

 High efficient returns

- Dual-channel MPPT, single-channel 16A current
- Supports 2 times DC overload
- Max. efficiency 98%

 Safe and reliable

- IP66 high protection level
- AFCI DC arc protection
- DC/AC level II lightning protection

 Smart Operation and Maintenance

- Smart I-V curve scanning diagnostics for string anomalies
- Supports multi-machine parallel operation, flexible capacity expansion
- Standard equipped with diesel generator interface, supports diesel generator and Smart load access
- Supports lithium / lead-acid batteries, compatible with mainstream brands



Technical Parameter Table

	XD7KTL	XD8KTL	XD10KTL
DC Input (Photovoltaic Side)			
Max. Input Power	10.5kW	12kW	15kW
Max. Input Voltage		600V	
Starting Voltage		100V	
Rated Voltage		360V	
MPPT Voltage Range		100V ~ 550V	
Number of MPPTs		2	
Number of strings that each MPPT can connect		2 / 1	
The Max. input current for each MPPT group.		40A / 20A	
Max. short-circuit current for each MPPT		50A / 25A	
AC Output (Grid Side)			
Rated output power	7kW	8kW	10kW
Max. output power	7.7kW	8.8kW	11kW
Max. output current	35A	40A	50A
Rated Voltage		230V	
Rated Frequency		50Hz / 60Hz	
Total Harmonic Distortion of Current (@ Rated Power)		< 3%	
Power factor		0.8 Leading ~ 0.8 Lagging	
AC Input (Grid Side)			
Max. Input Power	11.2kw	12.8KW	16KW
Max. Input Current	50.9A	58.18A	72.72A
Rated Frequency		50Hz / 60Hz	
Off-grid output			
Max. output power	7.7kVA	8.8kVA	11kVA
Max. output current	35A	40A	50A
Peak output power, time	14kW, 10s	16kW, 10s	18kW, 10s
Rated output voltage		230V, 50Hz	
THDv(@ rated power)		< 3%	
Switching time		< 10ms	
Battery parameters			
Battery type		Lithium battery, lead-acid battery	
Battery voltage range		40V ~ 60V	
Max. charge and discharge current	175A	190A	220A
Communication Method		CAN	
Efficiency			
Max. efficiency		98.00%	
European Efficiency		97.50%	
Charge and Discharge Efficiency		97.00%	
Protection			
DC Switch		Yes	
DC anti-reverse / Insulation resistance / Ground protection		Yes	
Islanding Protection		Yes	
Overcurrent / Overvoltage protection		Yes	
Output Short-Circuit Protection		Yes	
Leakage Current Detection		Yes	
Battery Soft Start Protection		Yes	
Battery activation function		Yes	
I-V curve scanning		Yes	
Lightning protection		Secondary	
AFCI Protection		Optional	
Display and Communication			
Display		LCD	
Communication		RS485 / CAN / WiFi / 4G / LAN / Bluetooth	
Standards Met			
Certification	IEC/EN 62109-1/2, IEC/EN 61000-1/3, EN50549, IEC 61727/62116		
General Parameters			
Dimensions (W x H x D)	440 x 534 x 240mm		
Weight	32kg		
Ambient Temperature Range	-30°C ~ +60°C		
Cooling Method	Intelligent air cooling		
Protection Level	IP66		
Max. working altitude	4000m		
Standby loss	< 10W		
Relative Humidity	0~100%		
Topology	High-frequency isolation (for battery)		
Warranty	5 years		