

Smart Energy Storage System



Powered by Solar

XD3-6KTL

Single-Phase Hybrid Inverter

- Dual MPP Trackers, 150% DC input oversizing
- Smart I-V curve diagnosis function
- AFCI function (optional)
- Multiple working modes
- IP66 protection
- DC & AC type II SPD
- Max. 6 units inverters parallel
- Plug & play, EPS switching under 10ms



	XD3KTL	XD3K6TL	XD4KTL	XD4K6TL	XD5KTL	XD6KTL
Input (PV)						
Max. PV Input Power	4.5kW	5.4kW	6kW	6.9kW	7.5kW	9kW
Max. PV Input Voltage			600V			
Start-up Voltage			100V			
Rated Voltage			360V			
MPPT Voltage Range			100V ~ 550V			
Number of MPP Trackers			2			
Number of String per MPPT			1 / 1			
Max. Current per MPPT			16A			
Max. Short Circuit Current per MPPT			24A			
Output (AC)						
Rated Output Power	3kVA	3.68kVA	4kVA	4.6kVA	5kVA	6kVA
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.6kVA	5.5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	27.3A
Rated Voltage			230V			
Rated Frequency			50Hz / 60Hz			
THDi(@Rated Power)			< 3%			
Power Factor			0.8 leading ~ 0.8 lagging			
Output (EPS)						
Max. Output Power	3kVA	3.68kVA	4kVA	4.6kVA	5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	27.3A
Peak Output Power, Time	4.5kW,10s	5.5kW, 10s	6kW, 10s	6.9kW, 10s	7.5kW, 10s	7.5kW, 10s
Rated Voltage, Frequency			230V, 50Hz			
THDv (@Rated Power)			< 3%			
Switch Time			< 10ms			
Battery						
Battery Type			Lithium, Lead-acid			
Battery Voltage Range			40V ~ 60V			
Max. Charge / Discharge Current			100A			
Communication			CAN			
Efficiency						
Max. Efficiency			97.50%			
EU Efficiency			97.20%			
Battery Charge / Discharge Efficiency			95.00%			
Protection						
Protection		DC Switch, DC Reverse Polarity Protection, Anti-islanding Protection, AC Short Circuit Protection, Residual Current Monitoring, Insulation Resistance Monitoring, Ground Fault Monitoring, Over Current / Voltage Protection, Battery Soft Start Protection				
Surge Protection			Type II			
AFCI Protection			Optional			
Communication						
Display			LCD			
Communication			RS485 / CAN / WIFI / 4G / LAN / Bluetooth			
Standard Compliance						
Certification		IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61727/IEC62116, EN50549, CEI0-21, C10/C11, VDE4105, VDE0126, G98/99, RD244, UNE217001, UNE217002, AS4777, NRS097-2-1				
General Data						
Dimension (W x H x D)			490 x 395 x 200 mm			
Weight			20kg			
Operating Temperature Range			-30°C ~ +60°C			
Cooling Method			Natural			
Protection Degree			IP66			
Max. Operating Altitude			4000m			
Noise			≤ 25dB			
Relative Humidity			0~100%			
Self-consumption			< 10W			
Topology			High Frequency Insolation (For battery)			

XD3-6KTL-AIO

Energy Storage System

Technical Data			
System Schematic			

Input (Battery)			
Battery Type	LFP		
Battery Energy	5.12kWh	10.24kWh	15.36kWh
Number of Batteries	1	2	3
Dimension (W x H x D)	640 x 875 x 210 mm	640 x 1250 x 210 mm	640 x 1625 x 210 mm
Battery Voltage	51.2V		
Voltage Range	43.2V ~ 56.16V		
Max. Charging / Discharging Current	100A		

Inverter Module	XD3KTL-AIO	XD3K6TL-AIO	XD4KTL-AIO	XD4K6TL-AIO	XD5KTL-AIO	XD6KTL-AIO
Input (PV)						
Max. PV Input Power	4.5kW	5.4kW	6kW	6.9kW	7.5kW	9kW
Max. PV Input Voltage	600V					
Start-up Voltage	100V					
MPPT Voltage Range	100V ~ 550V					
Number of MPP Trackers / String per MPPT	2 / 1					
Max. PV Input Current	16A					
Max. Short Circuit Current per MPPT	24A					

Output (AC)						
Rated Output Power	3kW	3.68kW	4kW	4.6kW	5kW	6kW
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.6kVA	5.5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	26.1A
Rated Voltage	230V					
Rated Frequency	50Hz / 60Hz					
THDi(@Rated Power)	< 3%					
Power Factor	0.8 leading ~ 0.8 lagging					

Output (EPS)						
Max. Output Power	3kVA	3.68kVA	4kVA	4.6kVA	5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	30A
Peak Output Power, Time	4.5kW, 10s	5.5kW, 10s	6kW, 10s	6.9kW, 10s	7.5kW, 10s	7.5kW, 10s
Rated Voltage, Frequency	230V, 50Hz					
THDv(@Rated Power)	< 3%					
Switch Time	< 10ms					

Efficiency		
Max. Efficiency	97.50%	
EU Efficiency	97.20%	
Max. Battery Charge/Discharge Efficiency	95.00%	

Protection		
Protection	DC Reverse Polarity Protection, Insulation Resistance Monitoring, Ground Fault Monitoring, Over Current / Over Voltage Protection, Battery Soft Start Protection	
AFCI Protection	Optional	
Surge Protection	Type II	

General Data		
Operating Temperature Range	-20°C ~ +60°C	
Self-consumption	< 10W	
Protection Degree	IP65	
Relative Humidity	0 ~ 100%	
Display	LCD	
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth	
Max. Operating Altitude	4000m	
Noise	≤ 25dB	
Cooling Method	Natural	

Residential Storage System

