

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)					

XD5-12KTR

Three-Phase Hybrid Inverter



- 160% DC input oversizing, Max. PV input current 20A
- Max. charge/discharge current 50A
- 110% output power oversizing, 200% peak output power
- AFCI function (optional)
- IP66 protection
- DC & AC type II SPD
- Plug & play, EPS switching under 10ms
- Multiple working modes

	XD5KTR	XD6KTR	XD8KTR	XD10KTR	XD12KTR
Input (PV)					
Max. Input Power	8kW	9.6kW	12.8kW	16kW	19.2kW
Max. Input Voltage			1100V		
Start-up Voltage			160V		
Rated Voltage			600V		
MPPT Voltage Range			150V ~ 1000V		
Number of MPP Trackers			2		
Number of String per MPPT			1/1		
Max. Current per MPPT			20A		
Max. Short Circuit Current per MPPT			40A		
Output (AC)					
Rated Output Power	5kVA	6kVA	8kVA	10kVA	12kVA
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	7.2A	8.7A	11.6A	14.5A	17.4A
Rated Grid Voltage			230Vac / 400Vac		
Rated Grid Frequency			50Hz / 60Hz		
THDi(@Rated Power)			<2%		
Power Factor			0.8 leading ~ 0.8 lagging		
Output (EPS)					
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Output Power, Time	10kW, 60s	12kW, 60s	16kW, 60s	20kW, 60s	20kW, 60s
Rated Voltage, Frequency			230V / 400V, 50Hz		
THDv(@Rated Power)			< 3%		
Switch Time			< 10ms		
Battery					
Battery Type			Lithium / Lead-acid		
Battery Voltage Range			120V ~600V		
Max. Charge / Discharge Current			50A		
Communication			CAN / RS485		
Efficiency					
Max. Efficiency	98.20%		98.40%		
European Efficiency	97.60%		97.80%		
Battery Charge / Discharge Efficiency	97.60%		97.80%		
Protection					
DC Switch	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, I-V Curve Scan, Battery Soft Start Protection				
Surge Protection			Type II		
AFCI Protection			Optional		
Communication					
Display			LCD		
Communication			RS485 / CAN / WIFI / 4G / LAN / Bluetooth		
General Data					
Dimension (W x H x D)			534 x 440 x 220 mm		
Weight			<30kg		
Operating Temperature Range			-30°C~ +60°C		
Cooling Method			Natural		
Protection Degree			IP66		
Max. Operating Altitude			4000m		
Noise			<35dB		
Relative Humidity			0~100%		
Self-consumption			< 10W		
Topology			Transformerless		

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
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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%					

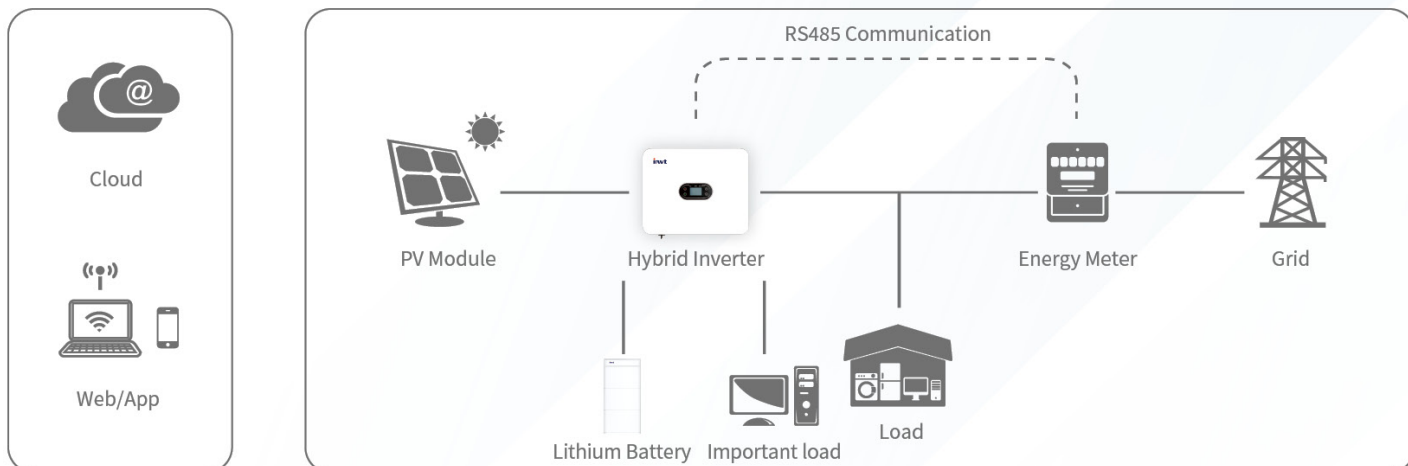
Protection

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	-10°C ~ +45°C					
Self-consumption	< 10W					
Protection Degree	IP65					
Relative Humidity	0 ~ 100%					
Display	LCD					
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth					
Max. Operating Altitude	4000m					
Cooling Method	Natural					

Residential Storage System





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