

XD5-12kW

Three Phase Hybrid Inverter



Efficient Higher Revenue

- 160% DC input oversizing, Max. PV input current 20A
- Max. charge/discharge current 50A
- 110% output power oversizing, 200% peak output power



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- IP66 protection: support outdoor installation
- DC & AC type II SPD: prevent lightning damage



Flexible Abundant Configuration

- Plug & play, EPS switching under 10ms
- AFCI function (optional): when an arc-fault is detected the inverter immediately stops operation
- 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	160V ~ 800V				
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	Yes				
DC Reverse Polarity Protection	Yes				
Anti-islanding Protection	Yes				
AC Short Circuit Protection	Yes				
Residual Current Monitoring	Yes				
Insulation Resistance Monitoring	Yes				
Ground Fault Monitoring	Yes				
Over Current / Voltage Protection	Yes				
I-V Curve Scan	Yes				
Battery Soft Start Protection	Yes				
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	4000 m				
Noise	< 35dB				
Relative Humidity	0~100%				
Self-consumption	< 10W				
Topology	Transformerless				