

XD5-12KTR

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			120V ~ 600V		
Max. Charge / Discharge Current			50A		
Communication			CAN		
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 232 mm		
Weight			27kg		
Operating Temperature Range			-30°C~ +60°C		
Cooling Method			Natural		
Protection Degree			IP66		
Max. Operating Altitude			4000 m		
Relative Humidity			0~100%		
Self-consumption			< 10W		
Topology			Transformerless		