

# 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
<b>Input (PV)</b>					
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				
<b>Output (AC)</b>					
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				
<b>Output (EPS)</b>					
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				
<b>Battery</b>					
Battery Type	Lithium / Lead-acid				
Battery Voltage Range	160V ~ 800V				
Max. Charge / Discharge Current	50A				
Communication	CAN / RS485				
<b>Efficiency</b>					
Max. Efficiency	98.20%			98.40%	
European Efficiency	97.60%			97.80%	
Battery Charge / Discharge Efficiency	97.60%			97.80%	
<b>Protection</b>					
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				
<b>Communication</b>					
Display	LCD				
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth				
<b>General Data</b>					
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				