

# HYBRID ON OFF GRID INVERTER

## XTHV 8000-15000EU3P



- 1 Hybrid All-in-one Inverter Design
- 2 Wide Battery Voltage 180 ~ 750V
- 3 UPS Function with 10ms Automatic Switchover
- 4 Smart Phase-level Power Export Limitation
- 5 IP65 Waterproof
- 6 1.5~2 DC / AC Ratio
- 7 100% Three-phase Imbalance Output
- 8 Intelligent Monitoring



XTRA POWER HF HV SERIES HYBRID ON OFF GRID INVERTER

Model No.	XTHV8000EU3P	XTHV10000EU3P	XTHV12000EU3P	XTHV15000EU3P
<b>Battery Parameters</b>				
Battery Voltage Range	180-750Vdc			
Battery Type	Lithium Battery			
Max. Charge / Discharge Current (A)	30A			
Max. Charge / Discharge Power (W)	8800Wh	11000Wh	13200Wh	15000Wh
<b>PV Input</b>				
Max. PV Input Power (W)	17000Wp	21500Wp	22500Wp	22500Wp
Full Max. PV Input Voltage (V)	1000Vdc			
Full Load MPPT Range(V)	200-850Vdc			
SPS Start-Up Voltage(V)	180Vdc			
MPPT Range For Nominal Power(V)	270-850Vdc	340-850Vdc	270-850Vdc	340-850Vdc
MPPT Range For Nominal Power(V)	620Vdc			
Max. Input current(A)	15A/15A	15A/15A	15A/30A	15A/30A
Max. Short current(A)	20A/20A	20A/20A	20A/40A	20A/40A
No. of MPPT Trackers	2	2	2	2
Strings Per MPPT Tracker	1+1	1+1	1+2	1+2
<b>AC Output (On grid)</b>				
Nominal Power Output to Grid (VA)	8000VA	10000VA	12000VA	15000VA
Max. Power Output to Grid(VA)	8000VA	10000VA	12000VA	15000VA
Max. Power From Grid (VA)	16000VA	20000VA	24000VA	25000VA
Nominal Output Voltage (Vac)	400/380 Vac, 3L/N/PE			
Nominal Output Frequency(Hz)	50/60Hz			
Max. AC Current to Grid (A)	12.1A	15.2A	18.2A	22.7A
Max. AC Current From Grid(A)	24.2A	30.3A	36A	36A
Output Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (Nominal Power) (%)	<3%			
<b>AC Output (Off grid)</b>				
Max. Output Power(VA)	8000VA	10000VA	12000VA	15000VA
Peak Output Power(VA)	16000VA, 10 Seconds	20000VA, 10 Seconds	24000VA, 10 Seconds	24000VA, 10 Seconds
Max. Output Current(A)	12.1A	15.2A	18.2A	22.7A
Nominal Output Voltage (Vac)	3/N/PE, 220/380 Vac, 230/400 Vac			
Nominal Output Frequency(HZ)	50/60Hz			
Output THDV (@Linear Load) (%)	<3%			
Switch Time (ms)	<10ms			
Load Control	Yes			
Three Phase Unbalance	Yes			
<b>Efficiency</b>				
MPPT Efficiency (%)	99.90%	99.90%	99.90%	99.90%
MAX. Efficiency (%)	98.30%	98.30%	98.40%	98.40%
EURO Efficiency (%)	97.50%	97.50%	97.60%	97.60%
<b>Safety And Protection</b>				
Anti-island Protection	Integrated			
PV&Battery AFCI	Optional			
PV Reverse Protection	Integrated			
Battery Reverse Protection	Integrated			
Residual Current Monitoring Unit	Integrated			
Over Current / Voltage Protection	Integrated			
DC Switch (PV)	Integrated			
Surge Protection	DC Type II / AC Type III			
<b>Communication Interface</b>				
Battery BMS	CAN			
EMS	RS485			
Meter	RS485			
DRED7 RCR	YES(DI)			
Remote Shut Down	YES(DI)			
Dry-Point	YES(DO)			
Cloud	WiFi / Bluetooth / 4G (Optional)			
Display / User Interface	LED / APP			
<b>General Data</b>				
Operating Temperature Range (°C)	-25°C-60°C			
Relative Humidity (%)	0-100%			
Operating Altitude (m)	≤ 2000m			
Cooling	Natural Cooling			
Noise (B)	<30		<50	
Weight (kg)	29Kgs			
Size (W/H/D) (mm)	500*550*218mm			
Installation	Wallmount			
Protection Degree	IP65			
<b>Certifications And Standards</b>				
Grid Certification	CED-21, VDE4105-AR-N, VDE0126-1-1, EN50549, G98, G99, G100			
Safety Certification	IEC62109-1&2			
EMC	EN610006-1, EN61000-6-2, EN610006-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29			