99% MPPT Efficiency Three Phase Hybrid Inverters Support Multiple Batteries Parallel

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: Daxin
- Certification: /
- Model Number: DX-30KHV-3PH-EU
- Minimum Order Quantity: 1 Set
- Packaging Details: Wooden case with pallet
- Delivery Time: 25-35 days
- Payment Terms: T/T
- Supply Ability: 6000pcs/month

Product Specification

- Battery Type: Lithium-ion
- Max. Charging Current (A): 50+50
- Rated AC Input/Output Active Power (W): 30000
- Max. Three-phase Unbalanced Output Current (A): 60
- Grid Connection Form: 3L+N+PE
- MPPT Efficiency: 99%
- Highlight: **99% MPPT Efficiency Hybrid Inverters**, **Multiple Batteries Parallel Hybrid Inverters**, **Three Phase Hybrid Inverters**

Product Description

99% MPPT Efficiency Three Phase Hybrid Inverters Support Multiple Batteries Parallel

Introduction:

Our Three Phase Hybrid Inverters, including models DX-29.9/30/35KHV-3PH-EU and DX-40/50KHV-3PH-EU, are designed for high power PV rooftops. They focus on high efficiency, compatibility, and intelligent management, suiting various energy scenarios. These inverters can operate in both on-grid and off-grid modes, with a maximum of 10 units able to be paralleled, making them a versatile choice for different power needs.

Product Parameters:

Model	DX-29.9KHV-3PH-EU
Battery Input Data	
Battery Type	Lithium-ion
Battery Voltage Range (V)	160-800
Max.Charging Current(A)	50+50
Max.Discharging Curent(A)	50+50
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	2
PV String Input Data	
Max.DC Input Power(W)	39000
Max.DC Input Voltage(V)	1000
Start-up Voltage(V)	180
MPPT Voltage Range(V)	150-850
Rated DC Input Voltage(V)	600
Max.Operating PV Input Current(A)	36+36+36
Max.Input Short-Circuit Current(A)	55+55+55
Noof MPPT Trackers/ No.of String Per MPPT Tracker	3/2+2+2
AC Input/Output Data	
Rated AC Input/Output Active Power (W)	30000
Max.AC Input/Output Apparent Power (VA)	33000
Rated AC Input/Output Current (A)	45.5/43.5
Max.AC Input/Output Current (A)	50/47.9
Max.Three-phase Unbalanced Output Curent (A)	60
Max.Continuous AC Pass through (grid to load) (A)	200
Peak Power (off-grid) (W)	1.5 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range(V)	220/380V, 230/400V 085Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3%(of nominal power)
DC Component of Grid	<0.5%In
Efficiency	
Max.Eficiency	97.60%
Euro Efficiency	97.00%
MPPT Effciency	99%
Equipment Protection	
Surge Protection Leve	TYPEII(DC).TYPE II(AC)
Interface	
Communication Interface	WFI,RS485,CAN
General Data	
Operating Temperature Range(°C)	-40 to +60°C,>45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise	≤65 dB(A)
Ingress Protection(IP) Rating	IP65
Inverter Topology	Non-Isolated

Over Voltage Category	OVCII(DC).OVC Ⅲ(AC)
Cabinet Sze(WxHxDmm)	527×894×294(Exduding Connectors and Brackets)
Weight (kg)	80
Type of Cooling	Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter,More Info Please Refer to Warranty Policy
Grid Regulation	IEC61727,IEC62116,.CEI 0-21,EN 50549.NRS 097,RD 140,UNE 217002 OVE-Richtlinie R25,G99.VDE-AR-N4105
Safety/EMC Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN62109-1,IEC/EN 62109-2

Product Advantages:

High Efficiency: With a maximum efficiency of up to 97.60% and an MPPT efficiency of 99%, these inverters can effectively convert solar energy into usable power, reducing energy losses.
Flexible Configuration: They support multiple battery paralleling and can be combined with a wide range of battery capacities and brands. Also, up to 10 units can be paralleled for on-grid and off-grid operation, meeting different power demands.
Intelligent Management: The self - adaptation to BMS for lithium - ion battery charging ensures optimal battery performance and safety. It also has a power factor adjustment range from 0.8 leading to 0.8 lagging, enhancing power quality.
Reliable Protection: Equipped with multiple protection functions such as DC polarity reverse connection protection, AC output overcurrent protection, and thermal protection, these inverters can operate stably in various environments.

Product Uses:

Industrial and Commercial Applications: Ideal for industrial and commercial rooftops, these inverters can help enterprises utilise solar energy, achieve peak shaving, and reduce energy costs.
Off - grid Systems: In off - grid areas, they can store energy from solar panels or diesel generators, providing a stable power supply for homes, remote facilities, or emergency power needs.
Retrofitting Existing Solar Systems: The AC couple feature allows for easy retrofitting of existing solar systems, upgrading their performance without major system overhauls.

Product Characteristics:

High Voltage Compatibility: Designed for high voltage batteries, these inverters can operate more efficiently, especially in large - scale solar power generation systems.
Multiple Monitoring Functions: They monitor DC terminal insulation impedance, DC components, and ground fault currents, ensuring system safety and stability.
Good Communication Capability: With WIFI, RS485, and CAN interfaces, the inverters can be easily integrated into smart energy management systems for remote monitoring and control.
High - Standard Protection Rating: The IP 65 ingress protection rating and TYPE II surge protection (for both DC and AC) protect the inverters from dust, water, and electrical surges, ensuring long - term reliable operation.

Shenzhen Daxin Intelligent Equipment Technology Co., Ltd

+86 15817363697 lubenzhi@szdxzh.com power-cabinets.com

Green Base Industrial Park, Longtian Street, Pingshan District, Shenzhen