

# 30KW-60KW Three-phase Hybrid Inverter



# **Features**

PV & Storage System

Integrate PV and storage system modern, support multiple batteries, integrate with EMS Smart Energy Management Systems;

- Smart Switching
   Modular design, supporting multiple parallel connections, expandable power
- and capacity;
- Wide Voltage Input Range
  Wide PV voltage input range 180V-
- 900V,wide batteries voltage range 220V-800V:

### **Safe and Reliable**

IP54 protection, all-aluminum design,
 built-in anti-lightning protection, high precision leakage protection;

### **Smart and Simple**

 Ultra-silent, with flexible communications and remote/local USB upgrade options.

### **Efficient Power Generation**

High-current instantaneous chargedischarge switching to improve power generation efficiency.



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## **Product Parameters**

Model		ETH30KW	ETH35KW	ETH40KW	ETH45KW	ETH50KW	ETH55KW	ETH60KW
Efficiency	MAX Efficiency			98.	40%			98.60%
	European Eficiency			97.	50%			97.50%
PV	MAX Input Power	45000W	52500W	60000W	67500W	75000W	82500W	90000W
	MAX Input Voltage	1000V						
	MPPT Operating Voltage	180~900V / 630V						
	Start-up Voltage	180V						
	MAX Input Current	3	36A / 36A / 36A / 36A / 36A / 36A					
	MAX Short Circuit Current	42A / 42A / 42A			42A / 42A / 42A / 42A			
	Number of MPPT Trackers	3			4			
	Number of Strings Per MPPT	2002/2/2			2/2/2/2			
Battery	Battery Voltage Range	220~800V						
	MAX Charge/Discharge Current	100A/100A						
	MAX Charge/Discharge Power	30000W	35000W	40000W	45000W	50000W	55000W	60000W
	Battery Type			L	i-ion / Lead-ad	id		
AC Output (On-grid)	Nominal Output Power	3000W	35000W	40000W	45000W	50000W	55000W	60000W
	MAX Apparent Power	30000VA	35000VA	40000VA	45000VA	50000VA	55000VA	60000VA
	Nominal Output Voltage	380V/400V, 3L/N/PE						
	Nominal Output Frequency	50Hz / 60Hz						
	MAX Output Current	45A	52A	60A	66A	75A	80A	87A
	Power Factor	1071	02,1				33,1	0,,,
	Total Harmonic Distortion	≈1 (0.8 lead to 0.8 lag can be set) <3%						
AC Output (Back-up)	Nominal Output Voltage	380V/400V, 3L/N/PE						
	Nominal Output Frequency	50Hz / 60Hz						
	Nominal Output Current	45A	52A	60A	66A	75A	80A	87A
	Nominal Output Power	30000W	35000W	40000W	45000W	50000W	55000W	60000W
	MAX Apparent Power	30000VA	35000VA	40000VA	45000VA	50000VA	55000VA	60000VA
	MAX Single-phase Apparent Power	10000VA	11000VA	13000VA	15000VA	17000VA	18000VA	20000VA
	Switching Time	<10ms						
Protection	AC Overcurrent Protection	Integrated						
	Ground Fault Protection	Integrated						
	Power Network Monitoring	Integrated						
	Residual Current Monitoring	Integrated						
General Data	Operating Temperature Range	-25°C~60°C (Derating occurs when >45°C)						
	Altitude	<4000m (Derating occurs when >2000m)						
	Noise	<40dB						
	Topology	Transformerless Isolation						
	Cooling	Intelligent Fan						
	Ingress Protection Rating	IP54						
	Relative Humidity	5%~90%						
	DC Connector Type	AC Connector Type						
	AC Connector Type	Quick Plug Terminal						
	Display	LCD						
	Cloud Communication	RS485 (WiFi / 4G / GPRS Optional)						
	BMS Communication Mode	CAN						
	Communication with Meter	RS485						
	Installation	Wall Mount / Floor Mount						
	Self-consumption at Night	< 10W						
	Dimensions ( W*D*H )	800*350*875mm						
	Weight	Approx. 102kg						
	Safety Standards	IEC62109-1/-2						
	EMC Strandards	EN61000-6-1/-2/-3, IEC61000						
ertification	EIVIC Straituarus	AS4777.2:2020, NRS097-2-1:2017, PN-EN50549- 1:2019, VDE-AR-N 4105:2018, EN50549- 1:2019+AC:2019-4						

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