



JH-12~30K-TH

Three Phase Hybrid Solar Inverter

12kW / 15kW / 17kW / 20kW / 25kW / 30kW



200% unbalance Load



Touch Buttons



UPS switch time < 10ms



JOHNRAY SOLAR ENERGY 

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Model	JH-12K-TH	JH-15K-TH	JH-17K-TH	JH-20K-TH	JH-25K-TH	JH-30K-TH
Input (PV)						
Max. Input Power:	18 kW	22.5 kW	25.5 kW	30 kW	37.5 kW	45 kW
Rated Voltage:	620 V					
Starting Voltage:	160 V					
DC Input Voltage Range:	150~1000 V					
MPPT Voltage Range:	150~850 V					
Number of MPPT / Strings:	2 / 2	2 / 3	2 / 4		2 / 4	
Max. Input / Short Current :	20 A / 30 A	20+32 / 30+48 A	32 A / 48 A		40 A / 60 A	
Output (AC)						
Rated Output Power:	12 kVA	15 kVA	17 kVA	20 kVA	25 kVA	30 kVA
Max. AC Input Power:	18 kVA	22.5 kVA	25.5 kVA	30 kVA	37.5 kVA	45 kVA
Max. Output Current:	21.5 A	27 A	30 A	32 A	40 A	48 A
Rated Output Voltage:	230/400 V					
Rated Frequency:	50/60 Hz					
Power Factor:	-0.8~+0.8					
THDi:	<3%					
Output (Back-up)						
Rated Output Power:	12 kVA	15 kVA	17 kVA	20 kVA	25 kVA	30 kVA
Rated Output Current:	17.4 A	21.8 A	24.8 A	29 A	36.3 A	43.5 A
Rated Output Voltage:	230/400 V					
Peak Output Apparent Power:	13.2 kVA, 60s	16.5 kVA, 60s	18.7 kVA, 60s	22 kVA, 60s	27.5 kVA, 60s	33 kVA, 60s
Rated Frequency:	50/60 Hz					
Automatic Switch Time:	<10 ms					
THDv:	<3%					
Battery						
Battery Type:	Lithium / Lead-acid					
Battery Voltage Range:	150~800 V					
Charge/Discharge Current:	30 A	50 A			60 A	
General Data						
Max. DC Efficiency:	98.3%			98.5%		
European Efficiency:	97.5%	97.8%		98%	98.1%	
Battery Charge/Discharge Efficiency:	98%					
Protection:	Reverse Polarity, Over Current/Voltage, Anti-islanding, AC Short-circuit, Leakage Current Detection, Ground Fault Monitoring, Grid Monitoring					
Display & Communication Interfaces:	LCD, LED, CAN, RS485, WiFi, GPRS, 4G					
Operation Temperature:	-25~60°C					
Cooling Method:	Smart Cooling					
Ingress Protection Rating:	IP65					
Noise Emission:	<30 dB					<40 dB
Max. Operating Altitude:	4000 m					
Topology:	Transformerless					
Standby Power Consumption:	<5 W					
Certifications:	NR597, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2, EN61000-6-2, EN61000-6-3					
Warranty:	5 years (standard) / 10 years (optional)					
Dimensions (WxHxD):	370x497x192 mm			558x535x260 mm		
Weight:	20.8 kg	29 kg			36 kg	

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