

WECO



Neat.
Flexible.
Compact.

H-ESY

THREE-PHASE HYBRID INVERTER

High Voltage Series is compact and lightweight, easy to use and install

6 – 8 – 10 – 12 – 15 kW

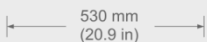


H-ESY

THREE-PHASE HYBRID INVERTER

Specifications

	H-ESY 6K	H-ESY 8K	H-ESY 10K	H-ESY 12K	H-ESY 15K
PV INPUT	Max. Power of PV Array				
	9 kW	12 kW	15 kW	18 kW	22.5 kW
	Max. Input Voltage				
	1000 V				
	MPPT Voltage Range				
	180 V ~ 850 V				
	Min. Input Voltage / Start voltage				
	125 V / 235 V				
BATTERY	Battery Type				
	Lithium and Lead Acid Battery				
	Battery Voltage Range				
	125 V~ 600 V				
	Max. Charging Current / Max. Discharging Current				
	50 A / 50 A				
	Rated Charging / Discharging Current				
	40 A / 40 A				
AC OUTPUT	Normal AC Voltage				
	3W+N+PE, 220 / 380 V ; 230 / 400V ; 240 / 415 V				
	AC Voltage Range				
	360 V~ 440 V				
	Rated AC Grid Frequency				
	50 Hz / 60 Hz				
	AC Grid Frequency Range				
	50 ± 5 Hz / 60 ± 5 Hz				
	Rated Active Power				
	6 kW	8 kW	10 kW	12 kW	15 kW
	Rated Apparent Power				
	6 kVA	8 kVA	10 kVA	12 kVA	15 kVA
	Max. Apparent Power				
6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA	
Rated Grid Output Current (@400 V)					
8.7 A	11.5 A	14.4 A	17.3 A	21.7 A	
Max. Grid Output Current					
9.5 A	12.7 A	15.9 A	19.1 A	23.8 A	
Harmonics THDI (@Nominal power)					
<3%					
AC INPUT	Rated Grid Voltage				
	3W+N+PE, 220 / 380 V ; 230 / 400V ; 240 / 415 V				
	Rated Grid Frequency				
	50 Hz / 60 Hz				
	Rated Active Power				
	12 kW	16 kW	20 kW	24 kW	30kW
	Max. Apparent Input Power From Grid				
13.2 kVA	17.6 kVA	22 kVA	26.4 kVA	33.3 kVA	
Rated Input Current From Grid					
17.3 A	23.1 A	28.9 A	34.7 A	43.4 A	
Max. Input Current From Grid					
19 A	25.5 A	31.9 A	38.2 A	47.6 A	
BACKUP OUTPUT	Nominal Output Voltage				
	3W+N+PE, 220 / 380 V ; 230 / 400 V ; 240 / 415 V				
	Rated Output Frequency				
	50 Hz / 60 Hz				
	Rated Active Power				
	6 kVA	8 kVA	10 kVA	12 kVA	15 kVA
	Max. Apparent Output Power				
	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA
	Peak Active Output Power				
	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA
Rated Current (@400V)					
8.7 A	11.5 A	14.4 A	17.3 A	21.7 A	
Max. Output Current					
9.5 A	12.7 A	15.9 A	19.1 A	23.8 A	
Max. Switch Time					
≤ 10 ms					
Output THDI (@Linear load)					
< 2%					
EFFICIENCY	MPPT Efficiency				
	≥ 99.5%				
	Max. Efficiency				
	97.90%	97.90%	98.20%	98.20%	98.50%
Euro Efficiency					
97.20%	97.20%	97.50%	97.50%	97.60%	
Max. Battery to Load Efficiency					
97.50%	97.50%	97.50%	97.60%	97.80%	

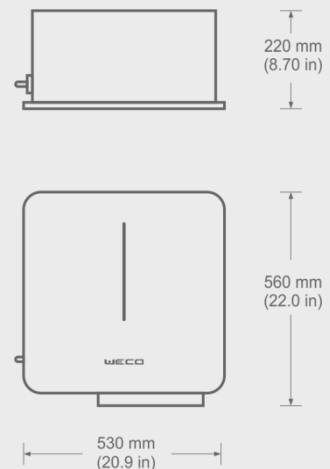


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THREE-PHASE HYBRID INVERTER

Specifications

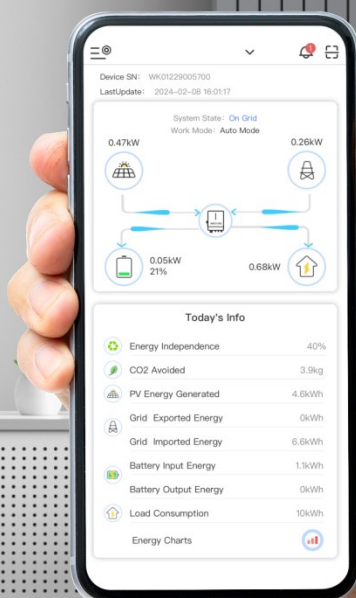
	H-ESY 6K	H-ESY 8K	H-ESY 10K	H-ESY 12K	H-ESY 15K		
SAFETY PROTECTION	DC-Side Disconnection Device					Included	
	PV String Reverse Polarity Protection					Included	
	All-pole Sensitive Residual Current Monitoring Unit					Included	
	Anti-Islanding Protection					Included	
	AC Output Over Current Protection					Included	
	AC Output Short Circuit Current Protection					Included	
	AC Over Voltage Protection					Included	
	Protection Class (As Per IEC 62109-1)					Included	
	Over Voltage Category (As Per IEC 62109-1)					AC : III ; DC : II	
GENERAL DATA	Power Factor At Rated Power					0.99 / 0.8 leading to 0.8 lagging	
	Adjustable Displacement						
	Dimensions (W x H x D) (mm)					530 / 560 / 220 mm	
	Device Weight		30 Kg	31 Kg	31 Kg	33 Kg	34 Kg
	Installation					Wall-mounted	
	Operating Temperature Range					-25 °C ~ +60 °C	
	Noise Emission (Typical)					< 35 dB (A)	
	Standby Consumption					< 15 W	
	Cooling Method					Natural convection	
	Ingress Protection Rating (As Per IEC 60529)					IP65	
	Climatic Category (According To IEC 60721 - 3 - 4)					4K4H	
	Max. Permissible Value for Relative Humidity (Non-Condensing)					0 - 95%	
Max. Operating Altitude					4000 m (> 2000 m power derating)		
FEATURES	Inverter Topology (PV/Battery)					Transformerless	
	User Interface					LED & App	
	Communication with BMS					RS485 / CAN	
	Communication with Meter					RS 485	
	Communication with Portal					Wi-Fi Stick	
	Integrated Power Control / Zero Export Control					Included	
STANDARD COMPLIANCE	Safety					EN 62109 - 1, EN 62109 -2	
	EMC					IEC 61000-6-1 / -2 / -3 / -4, IEC 61000-3-11, IEC 61000-3-12	



We recommend contacting WeCo for the most up-to-date datasheet, read warranty and manual before making any purchasing decisions. No part of this document can be copied or reproduced without WeCo written permission. All data is subject to change without prior notice.

WeCo APP MAKE YOUR LIFE EASIER

WeCo mobile app offers convenient and out-of-the-box monitoring of WeCo Energy Storage Systems, allowing users to manage everything with just a few taps.



FEATURES

Very compact and lightweight

Up to 50A charging / discharging current

High overload capacity

98.5% efficiency

WECO

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