



Neat.
Flexible.
Compact.

H-ESY

THREE PHASE HYBRID INVERTER

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

6 – 8 – 10 – 12 – 15kW

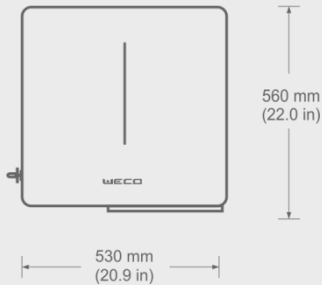


H-ESY

THREE-PHASE HYBRID INVERTER (RAL 7016)

Specifications

	H-ESY 6K	H-ESY 8K	H-ESY 10K	H-ESY 12K	H-ESY 15K					
PV INPUT	Nominal Power of PV array					6 kW	8 kW	10 kW	12 kW	15 kW
	Max. Power of PV Array					9 kW	12 kW	15 kW	18 kW	22.5 kW
	Rated Input Voltage					700 V				
	Max. Input Voltage					1000 V				
	MPPT Voltage Range					180 V ~ 850 V				
	Full Power MPPT Voltage Range					180 ~ 850 V	240 ~ 850 V	300 ~ 850 V	360 ~ 850 V	410 ~ 850 V
	Start voltage					235 V				
	No. of Independent MPPT Trackers					2				
	No. of Independent MPPT Strings per MPPT Input					1/1				2/2
	Max. Input Current per MPPT Tracker					18 A				20A
	Max. Short-circuit Current per MPPT Tracker					25A				30 A
BATTERY	Max. Charging / Discharging Power					6.6kW	8.8kW	11kW	13.2kW	16.5kW
	Rated Battery DC Voltage					200V	250V	300V	350V	400V
	Battery Voltage Range					125 V~ 550 V				
	Battery Working Voltage Range					150 V~ 550 V				
	Max. Charging Current / Max. Discharging Current					50 A / 50 A				
	Rated Charging / Discharging Current					40 A / 40 A				
	Battery Type					Lithium				
Communication Interface					WeCo-CAN					
AC OUTPUT	Rated Active Power					6 kW	8 kW	10 kW	12 kW	15 kW
	Max. Apparent Power to Grid					6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA
	Max. Apparent Power from Grid					13.2 kVA	17.6 kVA	22 kVA	26.4 kVA	33 kVA
	Rated Output Current to Grid					8.7 A	11.5 A	14.4 A	17.3 A	21.7 A
	Max. Output Current to Grid					9.6 A	12.7 A	15.9 A	19.1 A	23.8 A
	Rated Output Voltage					3W+N+PE, 220 / 380 V ; 230 / 400V ;				
	Rated AC Grid Frequency					50 Hz / 60 Hz				
	Harmonics THDI (@Nominal power)					<3%				
AC INPUT	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					19.1 A	25.5 A	31.8 A	38.2 A	47.8 A
BACKUP OUTPUT	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
	Rated Current (@400V)					8.7 A	11.5 A	14.4 A	17.3 A	21.7 A
	Max. Output Current					9.6 A	12.7 A	15.9 A	19.1 A	23.8 A
	Rated Output Voltage					3W+N+PE, 230 / 400V ;				
	Rated Frequency					50 Hz / 60 Hz				
	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%



*20Kw for reference

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.

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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			
	Power Factor At Rated Power		0.99 / 0.8 leading to 0.8 lagging			
GENERAL DATA	Adjustable Displacement					
	Dimensions (W x H x D) (mm)		572 x 670 x 220 mm			
	Device Weight	30 Kg	31 Kg	33 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				
FEATURES	Max. Permissible Value for Relative Humidity (Non-Condensing)		0 ~ 95%			
	Max. Operating Altitude		4000 m (> 2000 m power derating)			
	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		

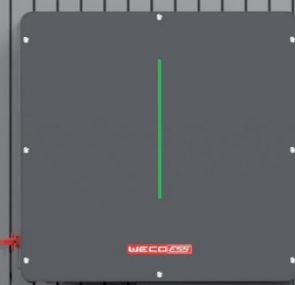
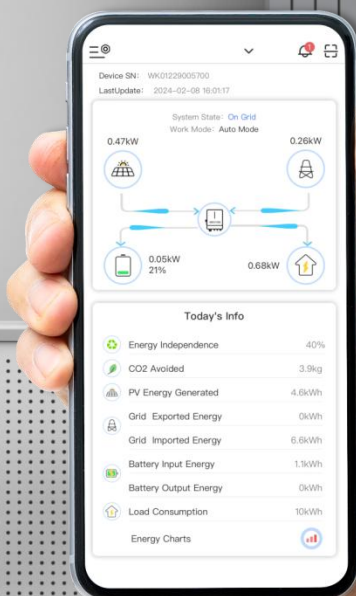


Inverter Color RAL 7016

The images in this datasheet may not correspond to the real colour as they are digital renderings

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 Srl a Socio Unico
Viale J. F. Kennedy 113-121
50038 Scarperia e San Piero
Firenze, Italy

weco@wecobatteries.com
www.wecobatteries.com

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