

A black, rectangular WeCo H-ESY inverter is mounted on a wall with vertical grey slats. The inverter has a green vertical LED indicator light in the center and the "WECO ESS" logo at the bottom. A red emergency stop button is visible on the left side.

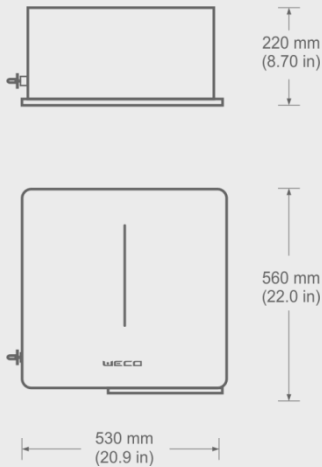
Neat.
Flexible.
Compact.

H-ESY

THREE PHASE HYBRID INVERTER

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

6 – 8 – 10 – 12 – 15kW



*20Kw for reference

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 ~ 600 V				
	Battery Working Voltage Range	150 V ~ 600 V				
	Max. Charging Current / Max. Discharging Current	50 A / 50 A				
	Rated Charging / Discharging Current	40 A / 40 A				
	Battery Type	Lithium				
AC OUTPUT	Communication Interface	WeCo-CAN				
	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	6 kW	8 kW	10 kW	12 kW	15 kW
	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	8.7 A	11.5 A	14.4 A	17.3 A	21.7 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%

We recommend contacting WeCo for the most up-to-date datasheet, read warranty and manual before making any purchasing decisions.
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All data is subject to change without prior notice.

H-ESY

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				
	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				
STANDARD COMPLIANCE	Integrated Power Control / Zero Export Control	Included				
	Safety	EN 62109 - 1, EN 62109 -2				
	EMC	IEC 61000-6-1 / -2 / -3 / -4, IEC 61000-3-11, IEC 61000-3-12				

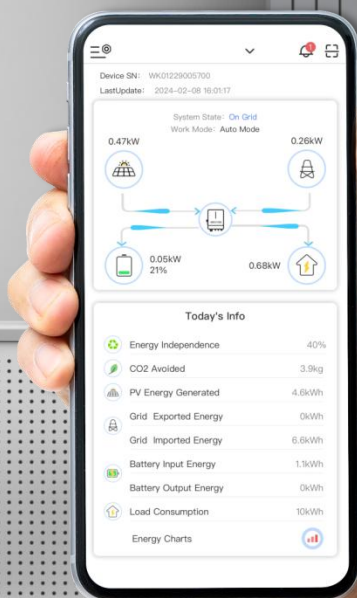


Inverter Color RAL 7016

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

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H-ESY

THREE PHASE
HYBRID INVERTER

