

Versatile.
Efficient
Scalable.

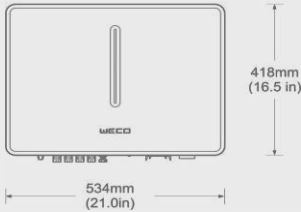


WECO TK SERIES

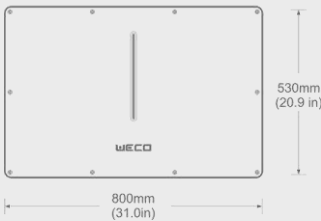
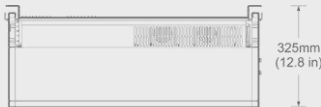
THREE-PHASE HYBRID INVERTER

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

20 – 25 – 30 – 40 – 50 kW



Serie 20 kW



Serie 50kW

WECO TK SERIES

THREE-PHASE HYBRID INVERTER

Specifications

	20 KW	25 KW	30 KW	40 KW	50 KW		
PV INPUT	Max. Power of PV Array						
	30 kW	37,5 kW	45 kW	60 kW	75 kW		
	Max. Input Voltage						
	1000 V						
	MPPT Voltage Range						
	200 V ~ 850 V						
	Min. Input Voltage / Start voltage		135 V	200 V			
	No. of Independent MPPT Trackers		2	4			
No. of Independent MPPT Strings per MPPT Input							
2							
Max. Input Current per MPPT Tracker							
30 A							
Max. Short-circuit Current per MPPT Tracker							
40 A							
BATTERY	Battery Type						
	WECO LFP						
	Battery Voltage Range						
	135 V ~ 750 V						
Max. Charging Current / Max. Discharging Current		40A / 40A	100 A / 100 A				
Rated Charging / Discharging Current		40A / 40A	100 A / 100 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		20 kW	25 kW	30 kW	40 kW	50 kW
	Rated Apparent Output Power		22 kVA	27.5 kVA	33 kVA	44 kVA	55 kVA
Rated Grid Output Current (@400 V)		33.5 A	42 A	50 A	66 A	83 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		20 kW	25 kW	30 kW	40 kW	50 kW
	Max. Apparent Input Power From Grid		30 kVA	30 kVA	36 kVA	48 kVA	60 kVA
	Max. Input Current		33.5 A	42 A	50 A	66 A	83 A
Rated Input Current From Grid		33.5 A	42 A	50 A	66 A	83 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		20 kW	25 kW	30 kW	40 kW	50 kW
	Max. Apparent Output Power		22 kVA	27.5 kVA	33 kVA	44 kVA	55 kVA
	Peak Active Output Power		22 kVA	27.5 kVA	33 kVA	44 kVA	55 kVA
	Rated Current (@400V)		33.5 A	42 A	50 A	66 A	83 A
	Max. Output Current		33.5 A	42 A	50 A	66 A	83 A
	Max. Switch Time		≤ 10 ms		≤ 20 ms		
Output THDI (@Linear load)							
< 3%							
EFFICIENCY	MPPT Efficiency						
	≥ 99.5%						
	Max. Efficiency		98.40 %		98.80 %		
Euro Efficiency		97.50 %		98,30 %			

We recommend contacting WeCo for the most up-to-date datasheet, 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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Specifications

	20 KW	25 KW	30 KW	40 KW	50 KW
SAFETY PROTECTION	PV Manual Isolator / Reverse Polarity Protection		Included		
	PV String Reverse Polarity Protection		Included		
	All-pole Sensitive Residual Current Monitoring Unit		Included		
	Battery Reverse Polarity Protection		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		0.8 leading to 0.8 lagging		
	Dimensions (W x H x D) (mm)		534x418x210	800 x 620 x 300	
	Device Weight		31 Kg	72 Kg	
	Installation		Wall-mounted		
	Operating Temperature Range		-25 °C ~ +60 °C		
	Noise Emission (Typical)		< 50 dB (A)		
	Standby Consumption (On Grid)		< 15 W		
	Cooling Method		Forced Convection with Smart Activation		
	Ingress Protection Rating (As Per IEC 60529)		IP65		
	Max. Permissible Value for Relative Humidity (Non-Condensing)		0 ~ 95%		
Max. Operating Altitude		4000 m (> 3000 m power derating)			
FEATURES	Inverter Topology (PV/Battery)		Transformerless		
	User Interface		LED & App		
	Communication with BMS		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		

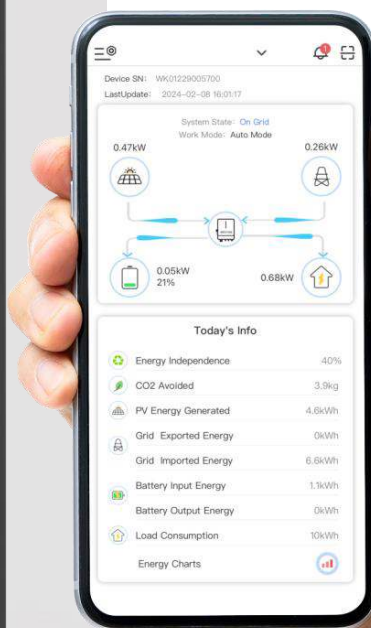


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WeCo APP MAKE YOUR LIFE EASIER

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 100A charging / discharging current

High overload capacity

Up to 98.8% efficiency



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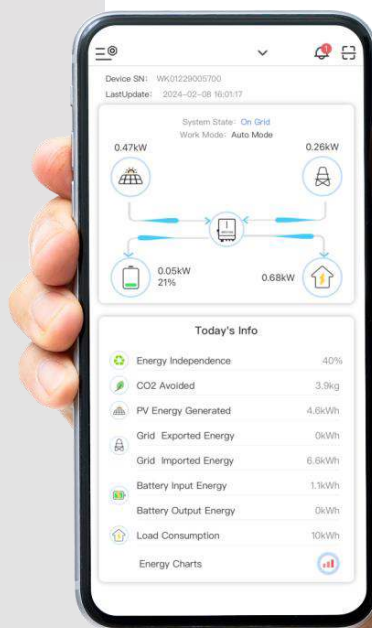
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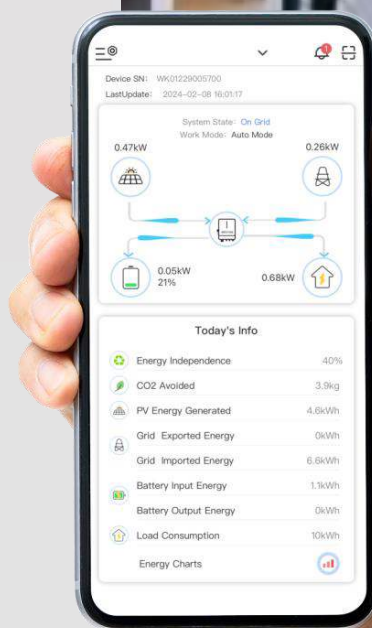
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