

WECO

TH SERIES

**MODEL
YEAR
2026**

8 – 10 – 12 – 15 – 18 – 20kW

THREE PHASE INVERTER



Power
Reflected.

FEATURES

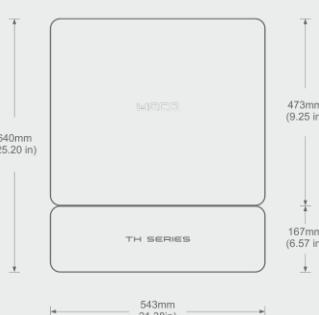
New glass front design
50A Charging / Discharging
Up to 200% PV Overdesign

Transparent Design, Visible innovation.

The TH Series combines a groundbreaking glass design with compact, user-friendly engineering. Easy to install and powerful for any project from 8 to 20kW.

Specifications

	8kW	10 kW	12 kW	15 kW	18kW	20 kW
PV INPUT						
Max. Power of PV Array	16 kW	20 kW	24 kW	24 kW	30kW	30 kW
Max. Input Voltage					1000 V	
MPPT Voltage Range					140 V ~ 850 V	
Start Up Voltage					160V	
No. of Independent MPPT Trackers					2	
No. of Independent MPPT Strings per MPPT Input	1				2	
Max. Input Current per MPPT Tracker				20A		25A
Max. Short-circuit Current per MPPT Tracker					30A	
BATTERY						
Battery Type					WEKO LFP	
Battery Voltage Range					135 V ~ 750 V	
Max. Charging Current / Max. Discharging Current					50 A	
Rated Charging / Discharging Current					50 A	
AC INPUT/OUTPUT (On-Grid)						
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	
Power Factor					1 (-0.8 to +0.8 adjustable)	
Rated Active Power (Input/Output)	8 kW	10 kW	12 kW	15 kW	18kW	20 kW
Rated Apparent Output Power	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA	19.8kW	22.2 kVA
Rated Grid Output Current (@400 V)	11.6 A	14.5 A	17.4 A	21.8 A	26A	28 A
Harmonics THDI (@Nominal power)					<2%	
Max. Input Apparent Power	16kVA	20 kVA	24 kVA	27.6kVA	34.5kVA	34.5kVA
Grid Bypass	23.2A	29 A	34.8 A	40 A	50A	50A
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	8 kW	10 kW	12 kW	15 kW	28kW	20 kW
Max. Apparent Output Power (10s, 150%)	12 kVA	15 kVA	18 kVA	22.5 kVA	27kVA	30 kVA
Max. Switch Time					≤ 20 mS	
Output THDI (@Linear load)					< 2%	
EFFICIENCY						
MPPT Efficiency					99.9%	
Max. Efficiency					98.40 %	
Euro Efficiency					97.50 %	



TH SERIES

INVERTERS

WECO

Specifications

8 KW 10 KW 12 KW 15 KW 18kW 20 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)	535×465×215mm
	Device Weight	20kg
	Installation	Wall-mounted
	Operating Temperature Range	-25 °C ~ +60 °C
	Noise Emission (Typical)	< 35 dB (A)
	Standby Consumption (On Grid)	< 25 W
	Cooling Method	Forced Convection with Smart Activation
	Ingress Protection Rating (As Per IEC 60529)	IP66
	Max. Permissible Value for Relative Humidity (Non-Condensing)	0 ~ 95%
FEATURES	Max. Operating Altitude	4000 m (> 3000 m power derating)
	Inverter Topology (PV/Battery)	Transformerless
	User Interface	LED & App
	Communication with BMS	CAN
	Communication with Meter	RS 485
	Communication with Portal	Wi-Fi Logger
	Integrated Power Control / Zero Export Control	Included
	Safety	EN 62109 - 1, EN 62109 -2, EN 62477-1
	EMC	IEC 61000-6-1 / -2 / -3 / -4
	STANDARD COMPLIANCE	



 **50A**
Charging Current

 **IP66**
Weather Protection

 **WIFI**
Wireless Communication

TH SERIES

THREE PHASE INVERTER

NooR 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.



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

weco@wecobatteries.com
www.wecobatteries.com

