

WECO

TH SERIES

25 – 29 – 30 kW

THREE PHASE HYBRID INVERTER

**MODEL
YEAR
2026**



Simply
Powerful.

FEATURES

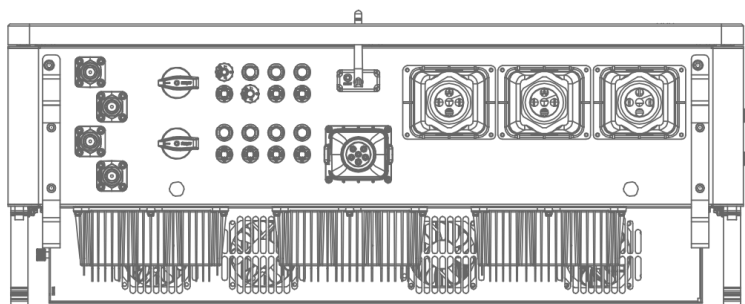
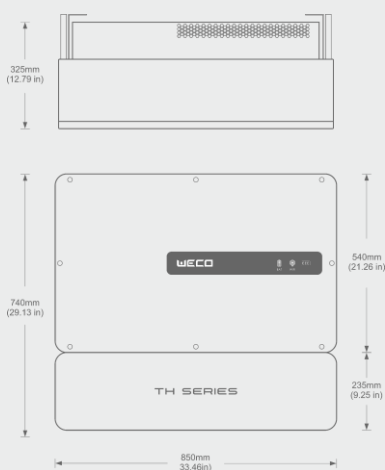
160A Battery Charging / Discharging
High overload capacity up 200%
Up to 98.8% efficiency

Unmatched Power, Uncompromising Design.

The TH25-60 series is built with a rugged and elegant design, engineered for ultimate durability and peak performance. It features a charge/discharge current that sets a new benchmark, providing the resilience needed for the most demanding applications.

Specifications

		25kW	29kW	30kW
PV INPUT	Max. Power of PV Array	100	100	100
	Max. Input Voltage	1000 V		
	MPPT Operative Range	140 V ~ 850 V		
	Min. Input Voltage / Start voltage	160V		
	No. of Independent MPPT Trackers	4		
	No. of Independent MPPT Strings per MPPT Input	2		
	Max. Input Current per MPPT Tracker	36 A		
	Max. Short-circuit Current per MPPT Tracker	55 A		
BATTERY	Battery Type	WECo LFP		
	Battery Voltage Range	135 V ~ 1000 V (950 >Derating)		
	Max. Charging Current / Max. Discharging Current	80A per output, or 160A single output		
	Rated Charging / Discharging Current	80A per output, or 160A single output		
AC OUTPUT/INPUT (On-Grid)	Normal AC Voltage	3W+N+PE, 208V- 60Hz		
	AC Voltage Range	180V ~ 230Vac		
	Rated AC Grid Frequency	50 Hz / 60 Hz		
	Power Factor	1 (-0.8 to + 0.8 adjustable)		
	Rated Active Power	25 kW	29 kW	30 kW
	Max. Apparent Power	27.5 kVA	29 kVA	33 kVA
	Rated Grid Output Current (@400 V)	69,4	80,5A	83,3A
	Harmonics THDI (@Nominal power)	<2%		
	Grid Bypass	76 A	91 A	91 A
BACKUP OUTPUT	Nominal Output Voltage	208V nominal		
	Rated Output Frequency	50 Hz / 60 Hz		
	Rated Active Power	25 kW	29 kW	30 kW
	Max. Apparent Output Power	37.5 kVA 10s	43.5 kVA 10s	45 kVA 10s
	Max. Switch Time	≤ 10 mS		
	Output THDI (@Linear load)	< 2%		
EFFICIENCY	MPPT Efficiency	99.9%		
	Max. Efficiency	98.50 %		
	Euro Efficiency	98 %		



TH SERIES

INVERTERS

	Specifications	25kW	29 KW	30 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)		825 x 795 x 327	
	Device Weight		80kg	
	Installation		Wall-mounted	
	Operating Temperature Range		-25 °C ~ +60 °C	
	Noise Emission (Typical)		< 50 dB (A)	
	Standby Consumption (On Grid)		< 35 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%	
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 Stick	
STANDARD COMPLIANCE	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	



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

wecobatteries.com

TH SERIES

THREE PHASE HYBRID INVERTER 25~60kW

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

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

weco@wecobatteries.com
www.wecobatteries.com



Images herein are for demonstration only and may not reflect final product outlook. Confirm current data with WeCo before purchase.
Unauthorized use, copying, or reproduction of design, logo or content is prohibited. WeCo is a registered brand of WeCo Srl Italia.