TEECOO

European V1.0
Nov. 2026

Three-Phase Hybrid Inverter

Datasheet

15kW 20kW





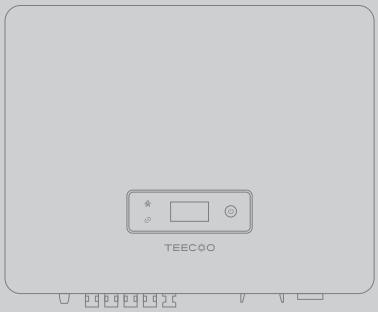
POWERFUL BY DESIGN

Built for flexible solar + storage systems

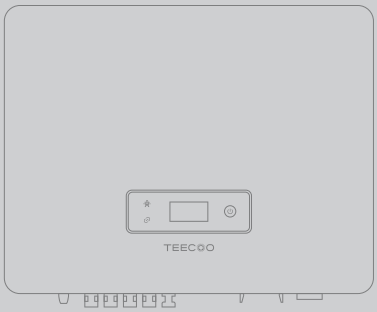
PV input current per MPPT	Max. battery charge / discharge	Automatic backup switching	Ingress protection	Maximum efficiency
30 A	40 A	<10 ms	IP65	98.4%

Key features

2 MPPTs with 2 strings per tracker
135–750 V lithium battery operating range
Three-phase grid and backup output
CAN / RS485 communication; LED & OLED display



HINV-15kW-P3



HINV-20kW-P3

PV INPUT

Max. PV Input Power	**24,000 W (12,000 W / 12,000 W)**	**32,000 W (16,000 W / 16,000 W)**
Max. PV Input Voltage	**1,000 V**	**1,000 V**
MPPT Voltage Range	**200 - 950 V**	**200 - 950 V**
Max. PV Input Current	**30 A / 30 A**	**30 A / 30 A**
Max. PV Short-circuit Current	**40 A / 40 A**	**40 A / 40 A**
No. of MPP Trackers	**2**	**2**
Strings per MPP Tracker	**2 / 2**	**2 / 2**

BATTERY

Battery Chemistry	**LFP**	**LFP**
Operating Voltage Range	**135-750 V**	**135-750 V**
No. of Battery Channel	**1**	**1**
Max. Charging/Discharging Current	**40 A / 40 A**	**40 A / 40 A**
Max. Charge/Discharge Power	**15,000 W / 15,000 W**	**20,000 W / 20,000 W**
Communication Interface	**CAN**	**CAN**

GRID OUTPUT

Nominal Output Power	**15,000 W**	**20,000 W**
Max. Output Apparent Power	**16,500 VA**	**22,000 VA**
Grid Topology	**3L/N/PE**	**3L/N/PE**
Grid Frequency	**50 / 60 Hz**	**50 / 60 Hz**
Nominal Grid Voltage	**220 / 380 V, 230 / 400 V, 240 / 415 V**	**220 / 380 V, 230 / 400 V, 240 / 415 V**
Rated Output Current	**22.7 A / 21.7 A / 20.8 A**	**30.3 A / 29 A / 27.8 A**
Max. Output Current	**25.0 A**	**33.5 A**
THDi	**< 3% at rated power**	**< 3% at rated power**
Power Factor	**0.8 leading to 0.8 lagging**	**0.8 leading to 0.8 lagging**

GRID INPUT

Max. Input Apparent Power	**30000 VA**	**30000 VA**
Max. Input Current	**45.4 A**	**45.4 A**

	HINV-15kW-P3	HINV-20kW-P3
BACK-UP OUTPUT		
Max. Continuous Apparent Power	**15,000 VA**	**20,000 VA**
Backup Output Topology	**3L / N / PE**	**3L / N / PE**
Nominal Output Frequency	**50 / 60 Hz**	**50 / 60 Hz**
Nominal Output Voltage	**220 / 380 V, 230 / 400 V, 240 / 415 V**	**220 / 380 V, 230 / 400 V, 240 / 415 V**
Max. Continuous Current	**22.7 A / 21.7 A / 20.8 A**	**30.3 A / 29 A / 27.8 A**
Automatic Switching Time	**< 10 ms**	**< 10 ms**
THDu	**< 3% at linear load**	**< 3% at linear load**
EFFICIENCY		
MPPT Efficiency	**99.90%**	**99.90%**
Max. Efficiency	**98.40%**	**98.40%**
European Effciency	**97.50%**	**97.50%**
GENERAL DATA		
Dimensions (HxWxD)	**534 × 418 × 210 mm**	**534 × 418 × 210 mm**
Weight	**31 kg**	**31 kg**
Operating Temperature	**-30 to +60 °C**	**-30 to +60 °C**
Cooling Method	**Intelligent Fan**	**Intelligent Fan**
Self-consumption	**15 W**	**15 W**
Display	**LED & OLED**	**LED & OLED**
Communication	**CAN, RS485**	**CAN, RS485**
Ingress Protection	**IP65**	**IP65**
Humidity	**0–100% RH, non-condensing**	**0–100% RH, non-condensing**
Maximum operating altitude	**3,000 m**	**3,000 m**
Inverter Topology	**Transformerless**	**Transformerless**
PROTECTION		
Grid Monitoring	**Yes**	**Yes**
Insulation Monitoring	**Yes**	**Yes**
Residual Current Monitoring	**Yes**	**Yes**
Anti-islanding Protection	**Yes**	**Yes**
DC Reverse Polarity Protection	**Yes**	**Yes**
AC Over-current Protection	**Yes**	**Yes**
AC Short-circuit Protection	**Yes**	**Yes**
AC Over-voltage Protection	**Yes**	**Yes**
DC Over-current Protection (Battery)	**Yes**	**Yes**
Surge Protection (SPD)	**DC: Type II, AC: Type III**	**DC: Type II, AC: Type III**
DC Switch (solar)	**Yes**	**Yes**
Remote Control via Dry Contact	**Yes**	**Yes**
Protection Class	**I**	**I**

TEECOO

TEECOO GmbH.
Address
Tel