

Hybrid Inverter Technical Reference

Model selection, electrical references and direct product resources for the Nexus Solar Energy and Devsol hybrid range.

Choose the exact inverter

Match capacity, battery system, phase and enclosure before comparing features. The 6kW IP21, IP54 and IP65 products are distinct. The 12kW single-phase and three-phase products are also distinct.



What this reference contains

An index of all 15 current hybrid catalogue entries, followed by eight detailed model reference cards. Use the linked product pages for current pricing and availability. Use the supplied unit nameplate and applicable installation instructions for final design.

Battery matching

Nominal voltage is the starting point. The operating voltage window, continuous battery/BMS current, charging profile, any required communication protocol, cable pinout and firmware must match the exact inverter-battery pair.

Document control

Revision 1 | Issued 25 October 2026. Model facts are drawn from the current manufacturer product pages. The 15kW technical reference also uses the supplied Devsol HN15KT-AH2GT manual. This reference does not replace an installation manual. Warranty terms apply.

Hybrid model index

Each row identifies a distinct catalogue product. Warranty follows the published model terms; pricing remains on the linked live product page.

Model	Output	Battery class	IP	Warranty
2kW 24V IP21	2kW	24V	IP21	2 years*
3kW 24V IP21	3kW	24V	IP21	2 years*
INNO 9G 3kW 24V IP54	3kW	24V	IP54	4 years*
3.5kW Advance 24V IP54	3.5kW	24V	IP54	4 years*
INNO 8G 4kW 24V IP21	4kW	24V	IP21	2 years*
DEV HYD 5kW 24V IP54	5kW	24V	IP54	4 years*
6kW 48V Dual MPPT IP21	6kW	48V	IP21	2 years*
DEV HYD 6kW 48V IP54	6kW	48V	IP54	4 years*
6kW 48V Dual MPPT IP65	6kW	48V	IP65	5 years*
8kW 48V Dual MPPT IP21	8kW	48V	IP21	2 years*
10kW 48V IP21	10kW	48V	IP21	2 years*
11kW 48V Dual MPPT IP21	11kW	48V	IP21	2 years*
Devsol 12kW Single-Phase IP66	12kW	48V	IP66	5 years*
Devsol INNO 9G 12kW Three-Phase IP66	12kW	48V	IP66	5 years*
15kW Three-Phase IP66	15kW	48V	IP66	5 years*

Source index

[2kW 24V IP21](#)
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INNO 9G 3kW 24V IP54



For a covered 24V home or small-business installation.

[Current model page, price and availability](#)

Rated output	3kW
Battery system	24V
Enclosure	IP54
Warranty	4 years*
Solar charge control	MPPT
Output waveform	Pure sine wave
Battery-less operation	Supported on the model; available input must cover the load

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. * [Written warranty terms](#).

DEV HYD 5kW 24V IP54



For a covered 24V home or small-business installation.

[Current model page, price and availability](#)

Rated output	5kW
Battery system	24V
Enclosure	IP54
Warranty	4 years*
Solar charge control	60V-450V MPPT
MPPT operating window	60-450V
Maximum PV input	9000W
Output	Pure sine wave; dual AC output
Battery-less operation	Supported on the model; available input must cover the load

First-hand demonstrations

[Daytime 5kW IP54 setup and load demonstration from 7:54](#)

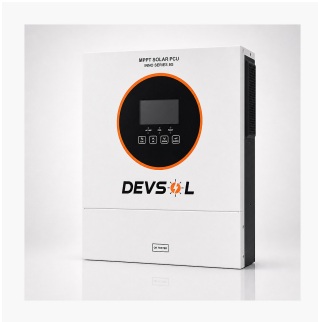
[Two-AC system demonstration: load discussion from 5:22](#)

Compare the demonstrated PV, battery support and running/starting loads with the planned installation.

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. * Written warranty terms.

6kW 48V Dual MPPT IP21



For a dry indoor installation with a matching 48V battery system.

[Current model page, price and availability](#)

Rated output	6kW
Battery system	48V
Enclosure	IP21
Warranty	2 years*
Solar charge control	Dual MPPT
Output waveform	Pure sine wave
Battery-less operation	Supported on the model; available input must cover the load

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. * [Written warranty terms](#).

6kW 48V Dual MPPT IP65



For a matching 48V solar and storage design. Follow the exact model mounting and environmental instructions.

[Current model page, price and availability](#)

Rated output	6kW
Battery system	48V
Enclosure	IP65
Warranty	5 years*
Solar charge control	Dual MPPT
Output waveform	Pure sine wave
Battery-less operation	Supported on the model; available input must cover the load

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. * [Written warranty terms](#).

DEV HYD 6kW 48V IP54



For a matching 48V solar and storage design. Follow the exact model mounting and environmental instructions.

[Current model page, price and availability](#)

Rated output	6kW
Battery system	48V
Enclosure	IP54
Warranty	4 years*
Solar charge control	60-450V
Maximum PV input	9000W
MPPT / maximum PV Voc	60-450V / 500V
PV / AC / combined charge limit	120A / 120A / 120A
Communication interfaces	RS232 / RS485 / CAN; pair-specific protocol setup applies
Output / surge	6kW / 12kVA
Output topology	Single phase; dual AC output
Battery-less operation	Supported
Display / monitoring	5-inch LCD; optional Wi-Fi

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. * [Written warranty terms](#).

Devsol 12kW Single-Phase IP66



For a matching 48V solar and storage design. Follow the exact model mounting and environmental instructions.

[Current model page, price and availability](#)

Rated output	12kW
Battery system	48V class; 40-60V operating range
Enclosure	IP66
Warranty	5 years*
Solar charge control	Dual MPPT, 2+1 PV strings
Phase	Single phase
Usable PV input / maximum DC voltage	13.2kW / 500V
MPPT window / input currents	125-425V / 40A + 22A
PV trackers / strings	2 trackers / 2+1 strings
Maximum charging current	200A
Transfer time	Below 10ms
Parallel capability	Up to 6 units, matching configuration
Communication interfaces	Wi-Fi / RS485 / CAN / DRM
Dimensions / net weight	440 x 670 x 250mm / 44kg

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. * Written warranty terms.

Devsol INNO 9G 12kW Three-Phase IP66



For a matching 48V solar and storage design. Follow the exact model mounting and environmental instructions.

[Current model page, price and availability](#)

Rated output	12kW
Battery system	48V class; 40-60V operating range
Enclosure	IP66
Warranty	5 years*
Solar charge control	MPPT
Phase	Three phase
Maximum PV input / DC voltage	18kW / 800V
MPPT window / input currents	200-650V / 40A + 20A
PV trackers / strings	2 trackers / 2+1 strings
Maximum charge / discharge current	260A
Rated output voltage	380 / 400 / 415V
Transfer time	Below 10ms
Dimensions / net weight	440 x 260 x 700mm / 39kg

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. * Written warranty terms.

15kW Three-Phase IP66



For a matching 48V solar and storage design. Follow the exact model mounting and environmental instructions.

[Current model page, price and availability](#)

Rated output	15kW
Battery system	48V
Enclosure	IP66
Warranty	5 years*
Solar charge control	MPPT
Technical reference	HN15KT-AH2GT in the supplied Devsol manual
Phase / rated AC power	Three phase; 15kW / 15kVA
Maximum PV input / DC voltage	22.5kW / 1000Vdc
MPPT window / PV inputs	120-950Vdc / dual MPPT; 2 x 30A
Li-ion / lead-acid battery window	40-60Vdc / 40-57Vdc
Maximum charge / discharge current	290A
Grid / EPS voltage	230/400Vac, 3L/N/PE
Dimensions / weight	478 x 660 x 248mm / 43kg

Manual and operating limits

The manual technical sheet gives 15kW / 15kVA, a 48V nominal battery system and up to 290A charge/discharge current. Its battery-output graph shows 11.6kW at 40V and 15kW at 52-60V. The connected bank, BMS and protective design must support the required power.

[15kW three-phase feature and setup walkthrough from 4:27](#)

Use the technical-library commissioning record to retain the exact inverter-battery configuration, current limits, settings and service documents.

Source: [manufacturer model page](#). Reference issue: 25 October 2026. Additional source: supplied Devsol 15kW user manual, identification and technical-data pages. * [Written warranty terms](#).