AXIS 5

Split-phase hybrid inverter · 5 kVA

Key strengths

- Plug & play
- Capable of supporting 100% unbalanced loads
- 100 A pass-through
- AC coupling to retrofit an existing solar system (on-grid & off-grid)
- Grid and diesel generator separately connected; supports storing energy from a diesel generator
- 3-phase 208 Vac and parallel function available



PV input

Max. DC input power	7.5 kW
No. of MPPT trackers	4
MPPT voltage range	120 ~ 500 V
Max. DC input voltage	500 V
Max. input current	14 A
Max. short-circuit current	22 A

Battery input

Nominal voltage	48 V
Max. charging / discharging current	120 / 120 A
Battery voltage range	40 ~ 60 V
Battery type	Lithium / lead-acid
Charging strategy for Li-ion battery	Self-adapts to the connected battery's communication

Compliance

Safety	UL 1741 SA all options, UL 1699B, CSA 22.3
EMC	FCC Part 15 Class B
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I, II, III

Pairs with the INVIGA RESERVE home battery. Our team will confirm inverter output, appliance starting loads and installation requirements for your home before your system is finalised.

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AC output (on-grid)

Nominal output power to grid	5 kVA
Max. apparent power to grid	5.5 kVA
Output voltage range	(110 ~ 120) / (220 ~ 240) V split phase, 240 V single phase
Output frequency	60 Hz (55 ~ 65)
Nominal AC current to grid	20.8 A
Max. AC current to grid	22.9 A
Max. grid pass-through current	100 A
Output THDi	< 3%

AC output (back-up)

Nominal apparent power	5 kVA
Max. apparent power	5.5 kVA
Nominal output voltage L-N / L1-L2	120 / 240 V
Nominal output frequency	60 Hz
Automatic switchover time	< 20 ms
Output power factor	0.8 leading ~ 0.8 lagging
Output THDu	< 2%
Peak power (off-grid)	105%, 60 s / 110%, 30 s / 120%, 10 s / 150%, 20 ms

Protection

- Grounding detection
- Arc fault protection
- Island protection
- Battery reverse polarity
- Insulation resistance detection
- Residual current monitoring unit
- Output over-current protection
- Back-up output short-circuit protection
- Output over-voltage protection
- Output under-voltage protection

General data

MPPT efficiency	99.9%
European efficiency (PV)	96.5%
PV-to-grid efficiency	97.2%
Battery-to-load efficiency	95.2%
PV-to-battery charging efficiency	96.1%
Grid-to-battery charging efficiency	95.0%
Output conduit	25.4 mm
PV input conduit	25.4 mm
Battery input conduit	35.4 mm
Operating temperature range	–25 ~ +60 °C
Relative humidity	0 ~ 95%
Operating altitude	0 ~ 4,000 m (derating above 2,000 m)
Ingress protection	IP65 / NEMA 3R
Built-in breaker	Optional
Weight	48 kg (50 kg with breaker)
Dimensions (W × H × D)	450 × 820 × 240 mm
Cooling	Fan cooling
Noise emission	38 dB
Display	LCD, touch panel (optional)
Communication with battery / meter / EMS	RS485, CAN
Supported communication interfaces	RS485, WLAN, 4G (optional)
Self-consumption	< 25 W
Diesel generator support	Yes

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