

Axil 5.5kW PV

Off-Grid Hybrid Inverter



**HIGH
FREQUENCY**

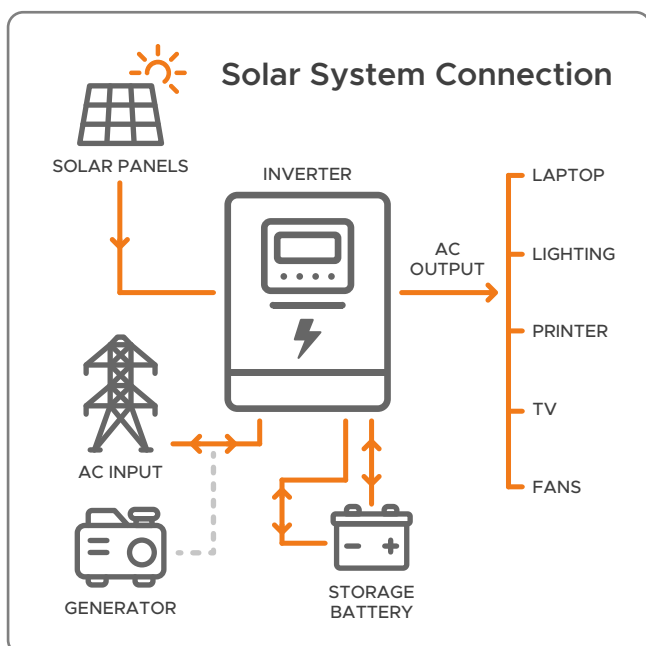
This versatile inverter combines solar and battery charging functions, allowing you to maximize solar energy for self-sufficiency or feed excess power back into the electricity grid - depending on your preferred settings.

During the day, solar energy powers your home appliances, while any surplus energy is either exported to the grid or stored in the battery for use during power outages or at night.

- Residential Power Backup
- Small Business and Office Use
- On-grid & Off-grid Installations

Features

- ✓ Pure Sine Wave Output
- ✓ LCD Display (Modes, Status, Charging Indicator, Fault Indicator, etc).
- ✓ Self-consumption & Feed-in to the grid
- ✓ Programmable supply priority for PV, Battery or Grid
- ✓ User-adjustable battery charging current suits different types of batteries
- ✓ Programmable multiple operation modes: Grid-tie, Off-grid and Grid-tie with back-up
- ✓ Multiple communication for USB, RS-485, CAN
- ✓ Monitoring software & WIFI kit for real-time status display and control (optional)
- ✓ Support parallel operation up to 3 units



Technical Specification

Axil 5.5kW PV	
Nominal Battery System Voltage	48 VDC
INVERTER OUTPUT	
Rated Power	5500 VA / 5500 W
Surge Power	11000 W
Waveform	Pure Sine Wave
AC Voltage Regulation (Battery Mode)	230 VAC $\pm$ 5% (setting)
Electric Current	23.9 A
Inverter Efficiency (Peak)	90%
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)
AC INPUT	
Voltage	230 VAC $\pm$ 5%
Selectable Voltage Range	170 ~ 280 VAC (UPS) 90 ~ 280 VAC (APL) 184 ~ 253 VAC (VDE4105)
Frequency Range	50 Hz / 60 Hz (Auto Sensing)
BATTERY	
Normal Voltage	48 VDC
Floating Charge Voltage	54.8 VDC
Overcharge Protection	60 VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	450 VDC
PV Array MPPT Voltage Range	150 ~ 430 VDC
Standby Power Consumption	2 W
Maximum PV Array Power	6000 W
Maximum Solar Charge Current	120 A
Maximum Efficiency	98%
Maximum AC Charge Current	100 A
Maximum Charge Current	120 A
MECHANICAL SPECIFICATIONS	
Dimensions (H x W x D)	510 x 295 x 145 mm
Weight	12 kg
OTHER	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	0°C ~ 50°C
Storage Temperature	-15°C ~ 60°C

Product specifications are subject to change without notice.



TALK TO US

☎ 0861 000 133

☎ 082 359 7060

☎ 086 540 6273

✉ info@axil.co.za

🌐 www.axil.co.za

📍 KwaZulu-Natal - Durban
Gauteng - Midrand
Cape Town - Montague Gardens

