

Conversol V7 5kW Off-Grid Inverter



- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- High PV input voltage range
- Removable LCD control module with multiple communications
- Selectable high power charging current
- Built-in Wi-Fi for mobile monitoring (App is available)
- Configurable AC/Solar input priority via LCD setting
- Reserved communication port for BMS (RS485 or CAN-BUS)
- Parallel operation up to 9 units

V7 5kW OFF-GRID INVERTER

Apert King II Off-Grid Inverter Specification

MODEL		Apert KING II-5000-48
Rated Power		5000VA/5000W
Parallel Capability		Up to 9 units
GRID INPUT		
Voltage		230 VAC
Voltage Range		110-280 VAC
Frequency Range		50 Hz/60 Hz (Auto sensing) $\pm$ 4Hz
Power Factor		$\geq$ 0.98 @ Nominal Voltage (100% Load)
THDi		$\leq$ 10%
LOAD OUTPUT		
AC Voltage Regulation (Line&Batt. Mode)		230VAC $\pm$ 5%
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz
Frequency Range (Batt. Mode)		50 Hz $\pm$ 0.1 Hz or 60Hz $\pm$ 0.1 Hz
Harmonic Distortion		$\leq$ 3 % THD (Linear Load); $\leq$ 5 % THD (Non-linear Load)
Transfer Time	AC Mode to Batt. Mode	0 ms
	Inverter to Bypass	4 ms (Typical)
Waveform		Pure sine wave
EFFICIENCY		
Line Mode		94%
ECO Mode		98%
Battery Mode		92%
BATTERY		
Battery Voltage		40~62 VDC
Floating Charge Voltage		54 VDC
Overcharge Protection		62 VDC
SOLAR INPUT		
Solar Charger type		MPPT
Maximum PV Array Power		6000 W
MPPT Range @ Operating Voltage		120 ~ 450 VDC
Maximum PV Array Open Circuit Voltage		500 VDC
Maximum Solar Charge Current		100A
Maximum AC Charge Current		100A
PHYSICAL		
Dimension, D x W x H (mm)		135.5 x 300 x 500
Net Weight (kgs)		15
Communication Interface		RS232, USB, DRY CONTACT, WI-FI, RS485, CAN
ENVIRONMENT		
Humidity		5% to 95% Relative Humidity(Non-condensing)
Operating Temperature		-10°C to 50°C
Storage Temperature		-15°C to 60°C

Product specifications are subject to change without further notice.