



### LIGEN-INV300

The “**LIGEN POWER**” inverter is a robust commercial-grade solution designed for small to medium-sized businesses, offices, and shops. With its advanced features and sturdy build, it ensures uninterrupted power supply during outages, enabling smooth operations.

#### Salient Features

- DSP Sinewave UPS / Inverter
- Sine Wave Technology
- Noiseless Operation
- Efficient Power Performance
- CRGO Laminated Core
- Pure Copper Transformer
- Low No-Load DC Current
- High-Quality PCB
- Consistent Output



#### Specification

Description	Details
Model No	LIGEN-INV300
Product	DSP Sinewave UPS/Inverter
Functionality	Works with Grid & Integrated LFP Battery
DSP Based	Less Components, small size less electricity bill more efficiency
Soft Start Features	Protects appliances at start-up
Usage	Reliable power backup for residential & commercial applications
Technology	Utilizes Sine Wave Technology for safe and efficient power delivery.
Battery Support	Internal 12.8V LIB Battery integrated with 4S1P BMS
Intelligent Processing	DSP technology enables advanced control algorithms for precise output regulation, adaptive learning for optimized battery management, and fault detection for enhanced reliability. Efficient power management and quick fault response ensure uninterrupted operation in offline applications.
Smart Display	Offers unique indications for mains status, Output status, system faults, Load status, Temperature status, Charging and battery status.

<b>Operation Modes</b>	Involves switching from mains power to battery power during outages, ensuring uninterrupted supply to connected devices. Ideal for sensitive appliances like computers.
<b>Protection Features</b>	Includes MCB/Fuse for input mains protection and a bypass switch for direct main supply in case of inverter faults.
<b>Grid Protection</b>	AC input low and high voltage cut off protections in both, inverter and UPS modes
<b>Noiseless Operation</b>	Low harmonic distortion ensures quiet operation. This inverter prioritizes reliability, efficiency, and safety, making it an ideal choice for commercial establishments requiring dependable backup power solutions.

### Technical Specification

Specification	Details
<b>Model</b>	<b>LIGEN INV-300VA</b>
<b>Rated Power</b>	<b>300VA/240W (1-Phase Input 1-Phase Output)</b>
<b>Input Voltage (Battery Mode)</b>	12.8V DC
<b>BATTERY CHEMISTRY</b>	<b>Lithium iron phosphate (LFP)</b>
<b>BATTERY PACK</b>	INTERNAL INTEGRATED WITH 4S1P BMS
<b>BATTERY CAPACITY</b>	<b>15Ah</b>
<b>Grid Input Voltage (Vmp)</b>	110V - 260V AC
<b>Output Voltage (Grid Mode)</b>	<b>Same as Input</b>
<b>Output Voltage (Backup Mode)</b>	220V AC $\pm$ 2%
<b>Output Waveform (Grid Mode)</b>	<b>Same as Input</b>
<b>Output Waveform (Backup Mode)</b>	Pure Sine Wave
<b>Output Frequency (Grid Mode)</b>	<b>Same as Input</b>
<b>Output Frequency (Backup Mode)</b>	50Hz $\pm$ 0.05Hz
<b>Max Grid Charging Current</b>	<b>3A<math>\pm</math>1A (CCCV)</b>
<b>Charging Time (Max)</b>	5 Hours 30 Minutes
<b>Load (Max)</b>	<b>195 Watt</b>
<b>Backup Time</b>	55 Minutes
<b>Efficiency</b>	<b>&gt; 80%</b>
<b>Changeover Time</b>	<8ms
<b>Protection</b>	<b>Yes (Automatic Cut-off)</b>
<b>Protection Supported</b>	Overload, Deep Discharge, Over Charge, Short Circuit, Over Temperature.
<b>Over Load Capacity</b>	>110%: 3 times auto reset, 4th time shut down >200% Output goes down
<b>DISPLAY ON UPS/INVERTER</b>	LOW BATT., BATT. VOLTAGE, CHG. CURRENT, CHG. MODE, AC IN, AC OUT, LOAD, OVERLOAD, TEMPERATURE, INV ON/OFF STATUS
<b>Operating Temperature Range</b>	<b>-20°C to 65°C</b>
<b>Cooling Mechanism</b>	Intelligent Fan Cooling

<b>Cooling Fan Start/Stop</b>	<b>60°C /50°C</b>
<b>Audible Alarm</b>	<b>Yes</b>
<b>Bypass Feature</b>	<b>NA</b>

**Additional Information:**

- High-frequency switching technology for compact size and light weight.
- Pure sine wave output for a wide range of applications and harsh environments.
- High efficient DC-to-AC conversion minimizing energy loss.
- Standby Charging Mode enables battery charging even when the unit is switched off.
- Intelligent cooling fan control and LCD displays comprehensive operation status.
- Suitable for powering computers, POS systems, routers, lights, and other sensitive electronic devices.
- Advanced microcontroller for optimal performance and reliability.
- Easy installation and operation.

**Applications:**

- Small to medium-sized businesses
- Offices
- Shops
- Banks
- Restaurants
- Clinics
- Pharmacies
- Telecommunication facilities

**Physical Specification**

<b>Description</b>	<b>Status</b>
Display	2 Line LCD Display
Dimensions – L x W x H (cm)	32.5 x 19.2 x 20

**Warranty Information**

<b>Component</b>	<b>Warranty</b>
Inverter	1 Years
Battery	3 Years
Coverage	Manufacturing defects & performance failures under normal usage

**Amossys Portable Power LLP**  
**Shed No-B4-05(FF), B4-06(FF), B4-07(FF) & B4-08(FF)**  
**BIADA Industrial Area, Sikandarpur, Bihta Patna, Bihar – 801103**  
**[www.ligenpower.com](http://www.ligenpower.com)**