

Next Steps:

Discover how Ciyes Systems Integrated Power Supply System (IPS) can optimize your operations. Our IPS delivers reliable, efficient, and stable power, minimizing downtime and maximizing productivity. Contact us today to learn how Ciyes's IPS can be your power solution.

IPS (Integrated Power Supply System)

Your Reliable Power Partner is here!



Key Problems Addressed:

- Frequent power outages disrupting operations
- Voltage fluctuations damaging sensitive equipment
- High maintenance costs of traditional power backup systems
- Inefficient power management leading to increased operational costs
- Difficulty in monitoring and troubleshooting power issues

IPS Solution Features:

- **Comprehensive Integration:** Combines rechargeable battery backup, solar power, MPPT controller, DC-DC converter, inverter, and voltage regulator in one system
- **Advanced Protection:** Equipped with Surge Protection Devices (SPDs) and Lightning Protection Devices (LPDs)
- **Modular Design with Hot Standby:** N+1 hot standby mode ensures continuous operation with redundant modules and allows for easy expansion
- **Remote Monitoring:** Real-time monitoring and alarm systems for proactive maintenance



Advantages of IPS:

- **Uninterrupted Power Supply:** Stable AC and DC power against all input variations and interruptions
- **Enhanced Equipment Lifespan:** Consistent power quality protects your sensitive equipment
- **Reduced Operational Costs:** Lower maintenance requirements and decreased dependency on backup generators
- **Simplified Power Management:** One integrated system for all your power needs
- **Proactive Issue Resolution:** Early warning system for potential power problems

Technical Specifications:

1. AC Distribution Panel (ACDP):
 - o Inverters: 110V DC to 230V AC
 - o Automatic Voltage Regulator (AVR): 230V to 230V AC
 - o Transformers: 230V AC to 110V AC
2. SMPS-based Float cum Boost Charger (FRBC) Panel:
 - o FRBC module (110V - 48VDC conversion)
 - o Distribution/Supervisory control/Alarm (DSA) unit
3. DC Distribution Panel (DCDP):
 - o DC-DC converters (48V to 12V Converter) (48V to 24V Converter)
 - o DC-AC inverters (48V DC to 230V AC Converter)
 - o Common Digital Voltmeter for measurements
4. Battery System:
 - o Single 110V battery set
 - o Capacity: 200/300 AH
5. Efficiency:
 - o Overall system efficiency: 90%
 - o Power Factor: Better than 0.9
6. Power Source Compatibility:
 - o Seamless integration with both solar and main power sources

Why Choose Caliber's IPS:

- **Tailored Solution:**
Customizable to meet your specific power requirements
- **Scalability:**
Easily expandable as your power needs grow
- **Energy Efficiency:**
High-efficiency SMPS technology reduces energy waste
- **Compliance:**
Meets international standards for power quality and safety
- **Expert Support:**
Backed by a team of power management specialists