



Online UPS 1Phase Out



DS Series

5~10kVA

1:1 phase



Control Panel



Features:

■ High reliability design

Double Conversion on-line design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, low distortion and without power fluctuation interference, providing the load with more comprehensive protection.

■ Strong protection for load

Built-in isolation transformer, strong anti-interference ability, provides more comprehensive protection.

■ Wide input range

Wide input voltage range up to :165~275Vac, avoid frequently switching to battery mode, which adapt to the areas with harsh environment.

Wide input frequency range, ensure all types of generators compatible.

■ Optimization of high-performance battery

Advanced floating switching and charging technology maximise the activation of the battery, thus saves the charging time and extends the battery life.

■ Battery cold start function

The UPS can be start directly by battery group when no utility power.

■ Comprehensive and reliable protection

Self-diagnosis function before start-up, avoid the risks that the failure may lead to.

The multi-protections such as overload, short-circuit, over-temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability.

Built-in static electronic bypass switch, when UPS fails, it can transfer to bypass mode and continue to provide power for load by AC.

DC start function. The UPS can be started directly without AC power.

- Adoption of IGBT Inverter, saves energy & coupled with an isolation transformer, enhances the reliability and load adaptability.

■ **User-friendly network management**

Communication with computer can be realized by RS232 with corresponding monitoring software. The various parameters can be shown on the communication interface.

External SNMP adapter. The UPS with remote network management capability can provide real-time data for communication and management through a variety of network management systems.



- 1. RS232 port
- 2. FAN
- 3. Input breaker
- 4. Connection box
- 5. Entrance hole
- 6. Active wheel

Rear Panel

▶ **Technical Specifications**

| MODEL | DS1105L16 | DS1105B16 | DS1106L16 | DS1106B16 | DS1108L16 | DS1108B16 | DS1110L16 |
|---------------------------|---|-----------|---------------|-----------|---------------|-----------|-------------|
| Capacity (KVA) | 5K | | 6K | | 8K | | 10K |
| INPUT | | | | | | | |
| Rated input voltage | 220/230Vac | | | | | | |
| Operating voltage range | 165 ~ 275 Vac | | | | | | |
| Operating frequency range | 50/60 Hz (±5%) | | | | | | |
| OUTPUT | | | | | | | |
| Rated output voltage | 220Vac±1% / 230Vac±1% | | | | | | |
| Output frequency | 50/60Hz±0.5% | | | | | | |
| Power Factor | 0.7 / 0.8 / 0.9 (Optional) | | | | | | |
| Crest factor | 3 : 1 (max) | | | | | | |
| Max. efficiency | >91% | | | | | | |
| THD | 2% (Linear load) | | | | | | |
| Overload | 125% : 1min, 150% : 200ms | | | | | | |
| BATTERY | | | | | | | |
| Battery voltage | 192Vdc | | | | | | |
| Battery Configuration | 7AH/12Vx16Nos | | 7AH/12Vx16Nos | | 7AH/12Vx16Nos | | |
| SYSTEM FEATURES | | | | | | | |
| Transfer Time | 0 ms (AC mode → Battery mode) | | | | | | |
| Communication interface | RS232, SNMP, Dry contact (optional) | | | | | | |
| ENVIRONMENTAL | | | | | | | |
| Operating temperature | 0 ~ 40°C | | | | | | |
| Humidity range | 0 ~ 95% (non condensing) | | | | | | |
| Noise level | <45dB (1m from surface) | | | | | | |
| PHYSICAL | | | | | | | |
| Dimension WxDxH (mm) | 230x580x750 | | | | | | 305x585x864 |
| Net Weight (kg) | 57 Kg | | 57 Kg | | 63 Kg | | 92 |
| STANDARDS | | | | | | | |
| Safety | IEC/EN62040-1; IEC/EN60950-1 | | | | | | |
| EMC | IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8 | | | | | | |

Specifications are subject to change without prior notice.



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