



## ON-LINE UPS 1Phase Out

### DS II Series

10 - 40 KVA

3:1 phase



Control Panel

**Application:** Bank, FM Station, Tv Station, Cinema Hall, Medical Equipment, Industries



### Features:

#### ■ High reliability design

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

Zero transfer time of output, satisfies high standard power requirements of precision equipment.

Modular design and dual-CPU control, high reliability and stability ensure the safe operation and high efficiency.

#### ■ High reliability during operation

Pure online static bypass technology, provides a strong protection against overload and fault.

Built-in manual maintenance bypass, further improves the reliability of continuous operation.

#### ■ Wide input range

The range of AC input voltage is  $380V \pm 20\%$ ,

thereby it reduces the battery using frequency and greatly extending the battery life.

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

#### ■ Optimization of high-performance battery

Adapt intelligent battery management (ABM) technology, thus it extends battery life and reduces battery maintenance times.

Advanced CC (constant current) / CV (constant voltage) auto-conversion charging technology maximizes the activation of cells, thus it saves the charging time and extending the battery life.

#### ■ 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.

#### ■ Strong Redundancy/parallel ability

Same units can be directly connected in parallel, increasing the scalability of the system.

The parallel system can share a group of backup battery.

Non-fixed Master-Slave relationship: Among several UPS in parallel, the unit startup first is Master UPS, the others are Slave UPS. The master and slave can be exchanged. If the inverter of one UPS fails, the UPS will automatically cut off the output, then the load will be powered by remained UPS.

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

- Conversion Type  
Triple Conversion Special design UPS  
AC-DC, DC-DC, DC-AC



Rear Panel

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

#### ■ User-friendly network management

LCD accurately displays the status of operation and data for users.

Communication with computer can be realized by RS232 with the 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.

## ▶ Technical Specifications

| MODEL                        | DSII3110L16   | DSII3115L16  | DSII3120L16 | DSII3125L16  | DSII3130L20         | DSII3140L20  |
|------------------------------|---|--------------|-------------|--------------|---------------------|--------------|
| Capacity (KVA)               | 10  | 15           | 20          | 25           | 30                  | 40           |
| Technology                   | 3:1 phase, online Triple conversion   |              |             |              |                     |              |
| INPUT                        | 25%   |              |             |              |                     |              |
| Voltage range/Power factor   | 380Vac± 25%("3Ph+N+PE") / 0.97  |              |             |              |                     |              |
| Operating frequency range    | 50/60 Hz (±5%)  |              |             |              |                     |              |
| OUTPUT                       |   |              |             |              |                     |              |
| Voltage range                | 220 Vac±1%  |              |             |              |                     |              |
| Frequency range              | 50/60Hz (±1%)   |              |             |              |                     |              |
| Power Factor                 | 0.8 Std. / (0.9 Optional)   |              |             |              |                     |              |
| Crest factor                 | 3 : 1 (max)   |              |             |              |                     |              |
| Max. efficiency              | 94%   |              |             |              |                     |              |
| THD                          | < 2% (Linear load)  |              |             |              |                     |              |
| Overload                     | 110 ~125% 60s, 150%/200ms later, transfer to bypass, restore after unloading                      |              |             |              |                     |              |
| BATTERY                      |   |              |             |              |                     |              |
| Battery voltage / Ch Current | 192Vdc / 10 Amp Std   |              |             |              | 240Vdc / 10 Amp Std |              |
| SYSTEM FEATURES              |   |              |             |              |                     |              |
| Transfer time                | 0 ms (Line mode → battery mode)   |              |             |              |                     |              |
| LED Display                  | Utility status, inverter, bypass, battery status, UPS abnormal, overload                          |              |             |              |                     |              |
| LCD Display                  | I/O voltage, frequency, battery voltage, load, internal temperature                               |              |             |              |                     |              |
| Communication interface      | Dry contact /RS232 /Intelligent Monitoring Software / SNMP (O)                                    |              |             |              |                     |              |
| ENVIRONMENTAL                |   |              |             |              |                     |              |
| Operating temperature        | 0 ~ 40°C  |              |             |              |                     |              |
| Storage temperature          | -25°C ~ 55°C  |              |             |              |                     |              |
| Humidity range               | 0 ~ 95% (non condensing)  |              |             |              |                     |              |
| Noise level                  | < 58dB (1m from surface)  |              |             |              |                     |              |
| PHYSICAL                     |   |              |             |              |                     |              |
| Dimension W×D×H (mm)         | 310x590x870   | 409x798x1044 |             | 409x798x1044 | 555x741x1200        | 555x741x1200 |
| Net Weight (kg)              | 115   | 125          | 200         | 236          | 290                 | 315          |
| 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.

Manufactured by:



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