

# SLD 31 MODEL 10-20 kVA ONLINE UPS



- High input power factor 0.99
- Low input current harmonic distortion (THDI) <5%
- High efficiency up to 94%
- Battery start feature
- Static and maintenance bypass feature
- Overload and short circuit protection system
- Standard emergency shutdown (EPO)
- 192 event logs (4500 alarms)
- Regenerative load feature
- calendar and clock
- Advanced automatic battery testing system
- Heat compensated battery charging system

\*Product images may vary according to power values.

## FEATURES AND VALUES



**Minimum footprint**



Short circuit protection system



Standard emergency shutdown (EPO)



**Modem Protection Feature**



Intelligent fan speed changing according to load



High yield

|               |       |
|---------------|-------|
| SLD 31 10 kVA | 10 kW |
| SLD 31 15 kVA | 15 kW |
| SLD 31 20 kVA | 20 kW |

You can access the product page by scanning the QR Code with your phone.



- Ability to set modem for dial-up connection
- RS232 and dry contact interface for remote monitoring
- Modular structure with 3 DSP control
- Isolation transformer option at input and output according to the application
- SNMP compatible communication option
- Minimum footprint

- MODBUS compatible communication option
- Compliance with international standards (EC directive EN 62040)
- 2 years full warranty and 10 years spare parts warranty
- Production with CE, TSE, ISO9001 and ISO14001 quality assurance system
- Numerically controlled structure

| MODEL                                  | SLD31  |                     | SLD31          | SLD31          |
|--|--|---------------------|----------------|----------------|
| Strength                               | 10 kVA / 10 kW   |                     | 15 kVA / 15 kW | 20 kVA / 20 kW |
| <b>Input</b>                           |  |                     |                |                |
| Input Connection                       | Three-phase five-wire (3 $\Phi$ + N + PE)  |                     |                |                |
| Rated Voltage                          | 380 / 400 / 415 Vac (220 Vac)  |                     |                |                |
| Voltage Value                          | 190 ~ 305 Vac (linear derating between 50% and 100% load);<br>305 ~ 499 Vac (no derating)                        |                     |                |                |
| Nominal Frequency                      | 50 / 60 Hz (auto-sensing)  |                     |                |                |
| Frequency Value                        | 40 ~ 70 Hz   |                     |                |                |
| Power Factor                           | $\geq 0.99$  |                     |                |                |
| Bypass Voltage Value                   | -40% ~ +15% (settable)   |                     |                |                |
| Total Harmonic Distortion (THDi)       | $\leq 5\%$   |                     |                |                |
| <b>Output</b>                          |  |                     |                |                |
| Output Connection                      | Single-phase three-wire (1 $\Phi$ + N + PE)  |                     |                |                |
| Rated Voltage                          | 208(PF=0.9) / 220 / 230 / 240 Vac  |                     |                |                |
| Voltage Regulation                     | $\pm 1\%$  |                     |                |                |
| Frequency                              | Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode                                  |                     |                |                |
| Waveform                               | Sinusoidal   |                     |                |                |
| Power Factor                           | 1  |                     |                |                |
| Total Harmonic Distortion (THDv)       | $\leq 1\%$ (linear load);<br>$\leq 3\%$ (non-linear load)  |                     |                |                |
| Peak Factor                            | 3:1  |                     |                |                |
| Overload                               | 105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s  |                     |                |                |
| <b>BATTERIES</b>                       |  |                     |                |                |
| DC Voltage                             | 192Vdc (192 ~ 240 Vdc settable)  |                     |                |                |
| Battery Number                         | 16pcs (16 ~ 20 settable)   |                     |                |                |
| Internal Battery (standard model)      | 12V / 9 Ah $\times$ 16   | /                   | /              | /              |
| Charging Current                       | Standard model: 1 A;<br>Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional)                        |                     |                |                |
| Charging Time                          | Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery             |                     |                |                |
| <b>SYSTEM</b>                          |  |                     |                |                |
| Productivity                           | $\geq 94\%$ at 100% load, max. 95% at 60% load, $\geq 98\%$ in ECO mode  |                     |                |                |
| Transfer Time                          | 0ms  |                     |                |                |
| Protections                            | Short-circuit, output overload, overtemperature, battery low voltage, overvoltage / undervoltage and fan failure |                     |                |                |
| Maximum Number of Parallel Connections | 4  |                     |                |                |
| Communication                          | RS232(standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)                 |                     |                |                |
| Screen                                 | LCD+ LED   |                     |                |                |
| <b>OTHERS</b>                          |  |                     |                |                |
| Operating temperature                  | 0°C ~ 40°C   |                     |                |                |
| Storage Temperature                    | -25°C ~ 55°C (without battery)   |                     |                |                |
| Relative humidity                      | 0 ~ 95% (non-condensing)   |                     |                |                |
| Altitude                               | $\leq 1000$ m, derating 1% for each additional 100 m   |                     |                |                |
| IP Rating                              | IP20   |                     |                |                |
| Noise Value at 1M Distance             | $\leq 58$ dB   |                     |                |                |
| Dimensions(W×D×H) (mm)                 | 191 × 495 × 711 (S) 191 × 495 × 350 (H)  | 191 × 495 × 515 (H) |                |                |
| Packaging Dimensions                   | 310 × 685 × 941 (S) 318 × 617 × 475 (H)  | 285 × 593 × 618 (H) |                |                |
| Net Weight (kg)                        | 64(S), 18.5 (H)  | 26.5(H)             |                |                |
| Gross Weight (kg)                      | 72(S), 20 (H)  | 28 (H)              |                |                |