# SLD MODULES ONLINE UPS

3 Phase Input | 3 Phase Output

*Product images may vary according to power values.

- Advanced dual-core DSP control technology
- True online, double conversion power protection and strong load capacity
- Compact, modular hot-swappable design that simplifies maintenance and scalability
- Up to 96% efficiency in online mode, up to 99% efficiency in ECO mode
- Dual input design, independent bypass available, increase bypass availability
- Output power factor 1.0, input power factor ≥ 0.99, input
- THDi ≤ 3%, output THDv ≤ 1%
- 138 ~ 485 Vac wide input voltage range, 50 Hz / 60 Hz mains self-adaptive
- Available frequency conversion: 50 Hz in / 60 Hz out or 60 Hz in / 50 Hz out
- Advanced digital parallel technology increases redundancy and reliability in the system
- Supports battery cold start and mains auto restart

## FEATURES AND VALUES

input power factor, pf > 0.99

Double conversion Online Double Conversion

advanced digital parallel technology

Cold Start

ECO mode efficiency: ( 99%)

low in weight power modules

Compact design that simplifies maintenance and scalability

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

- Flexible charger parameter and battery configuration settings, the number of batteries 30 ~ 46 pieces can be selected
- Compatible with lead-acid battery and lithium battery, suitable for different battery configuration requirements
- Supports battery cold start and mains auto restart
- Adjustable delay time for start-up when mains power is restored reduces impact on mains or generators
- Fan speed changes intelligently according to temperature, reducing noise and prolonging the service life of the fan
- Fault-tolerant design for fan system that takes 35% load when any of the fans fails
- Superior hardware and software protection functionality, robust self-diagnostic functionality and abundant event logs
- Multi-platform communication: RS485, CAN, NET, dry contacts, SNMP, Wi-Fi and GPRS communication interfaces; Real-time monitoring UPS available through mobile App after installing Wi-Fi card and GPRS card
- Intelligent battery management, automatic variable/equalizer charge control, battery self-diagnostic control, SOC detection, SOH detection and charger hibernation control, extending battery life

# Product features

| MODEL | SM33 | SM33 | SM33 | SM33 | SM33 | SM33 | SM33 |
|---|---|---|---|---|---|---|---|
| Strength | 100 kVA / 100 kW | 200 kVA / 200 kW | 200 kVA/200 kW | 300 kVA/300 kW | 400 kVA/400 kW | 500 kVA/500 kW | 600 kVA/600 kW |
| Number of Power Modules | 4 | 8 | 4 | 6 | 8 | 10 | 12 |
| Rated Capacity of Power Module | 25 kVA / 25 kW | | 50 kVA | | | | |
| **Input** | | | | | | | |
| Input Cabling | Three-phase five-wire (3Φ + N + PE) | | 3 Ph + N + PE | | | | |
| Rated Voltage | 380 Vac / 400 Vac / 415 Vac | | 380 / 400 / 415 Vac | | | | |
| Voltage Range | 138 ~ 305 Vac (linear derating at 40% ~ 100% load), 305 ~ 485 Vac (no derating) | | 138 ~ 485 Vac (304 ~ 485 Vac without power downgrading; 138 ~ 304 Vac with linear downgrading 40%) | | | | |
| Frequency range | 40 ~ 70 Hz | | 40 ~ 70 Hz | | | | |
| Input Power Factor | ≥ 0.99 | | ≥ 0.99 | | | | |
| THDi | ≤ 3% | | < 3% | | | | |
| Battery Voltage | ± 240 Vdc (±180 ~ ± 276 Vdc settable) | | ± 240 Vdc (±180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable) | | | | |
| Number of Battery (Accumulator) | 40 pcs 12 V batteries (30, 32, 34, 36, 38, 40, 42, 44, 46 pcs settable) | | 40 pcs12 V batteries ( 30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 pcs selectable) | | | | |
| **Output** | | | | | | | |
| Output Wiring | Three-phase five-wire (3Φ + N + PE) | | 3 Ph + N + PE | | | | |
| Rated Voltage | 380 Vac / 400 Vac / 415 Vac | | 380 / 400 / 415 Vac ± 1% | | | | |
| Output Frequency Accuracy | Synchronized with utility in mains power mode; 50 Hz / 60 Hz ± 0.1% in battery mode | | 50 Hz / 60 Hz ± 0.25% in battery mode | | | | |
| Output Power Factor | 1 | | 1 | | | | |
| Output Waveform Distortion (THDv) | ≤ 1% (linear load); ≤ 4% (non-linear load) | | ≤ 1% with linear load / ≤ 3 % with non-linear load | | | | |
| Peak Factor | 03:01 | | 03:01 | | | | |
| Overload Capacity | 105% < load ≤ 110% for 60 min, 110% < load ≤ 125% for 10 min, | | 105% < load ≤ 110%: transfer to bypass in 60 min | | | | |
| | | | 110% < load ≤ 125%: transfer to bypass in 10 min | | | | |
| | 125% < load ≤ 150% for 1 min, load > 150% for 0.2 s | | 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms Load > 150%: transfer to bypass in 200 ms Load ≤135% for long term; < 1000% load for 100 ms | | | | |
| **SYSTEM** | | | | | | | |
| Max. Productivity | 96% in on-line mode, 99% in ECO mode | | 96.50% | | | | |
| Transfer Time | 0 ms | | 0 ms | | | | |
| Protections | Short-circuit, overload, over-temperature, battery low voltage, undervoltage, overvoltage, fan failure protection | | Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc. | | | | |
| viewing | 7 inches LCD touch screen | | 7 inches LCD touch screen | | | | |
| **ENVIRONMENTAL** | | | | | | | |
| Operating temperature | 0°C ~ 40°C | | 0 ~ 40°C | | | | |
| Storage Temperature | -25°C ~ +55°C (without battery) | | -40°C ~ +70°C | | | | |
| Relative humidity | 0% ~ 95% (non-condensing) | | 0 ~ 95%(non-condensing) | | | | |
| Altitude | ≤ 1000 m, above 1000 m, derating 1% for each additional 100 m | | ≤1000 m. Above 1000 m, derating 1% for each additional 100 m | | | | |
| Protection Level | IP 20 | | IP 20 | | | | |
| Noisy | ≤ 65 dB (at 1 m) | | < 68 dB | | | | |