



Technology Driven Enterprise Power Solutions



LD 20000 and LD 20000S are double conversion Online UPS from Luminous specifically built to operate in harsh physical and electrical environments. These technologically advanced models are ideally designed to cater to the demands of medium and large enterprises. The feature rich backup power units are equipped with active power factor correction in all phases and programmable power management features to safeguard critical applications and sensitive equipment from erratic power fluctuations and breakdowns.

Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- Eco mode operation for energy saving (ECO)
- Programmable power management outlets
- Emergency power off function (EPO)
- Generator compatible
- Maintenance bypass available
- 3-stage extendable charging design for optimized battery performance

| MODEL | | LD20000 - Luminous 20KVA 3/1-20K | LD20000S - Luminous Pro 3/3-20K |
|--------------------------------------|---------------------|--|---|
| Capacity | | 20000VA / 18000W | |
| INPUT | | | |
| Voltage Range | Low Line Loss | 110VAC (L-N) ± 3% @ 50% load 176VAC (L-N) ± 3% @ 100% load | 110VAC (Ph-N) ± 3% @ 50% load 176VAC (Ph-N) ± 3% @ 100% load |
| | Low Line Comeback | Low Line Loss Voltage + 10V | |
| | High Line Loss | 300VAC (L-N) ± 3% @ 50% load 276VAC (L-N) ± 3% @ 100% load | |
| | High Line Comeback | High Line Loss Voltage -10V | |
| Frequency Range | | 46Hz ~ 54Hz @ 50Hz system 56Hz ~ 64Hz @ 60Hz system | |
| Phase | | 3 phase with ground | 3 phase with Neutral |
| Power Factor | | ≥ 0.99 @ 100% load | |
| OUTPUT | | | |
| Output Voltage | | 208/220/230/240VAC | 3 x 400VAC (3Ph+N) |
| AC Voltage Regulation | | ± 1% | |
| Frequency Range (Synchronized Range) | | 46Hz ~ 54Hz @ 50Hz system or 56Hz ~ 64Hz @ 60Hz system | |
| Frequency Range (Batt. Mode) | | 50Hz ± 0.1Hz or 60Hz ± 0.1Hz | |
| Overload | AC mode | 100% ~ 110%: 10min 110% ~ 130%: 1min >130%: 1sec | |
| | Battery mode | 100% ~ 110%: 30sec 110% ~ 130%: 10sec >130%: 1sec | |
| Current Crest Ratio | | 3:1(max.) | |
| Harmonic Distortion | | ≤ 2% 100% (Linear Load); ≤ 5% 100% (Non-Linear Load) | |
| Transfer Time | Line ← → Battery | 0 ms | |
| | Inverter ← → Bypass | 0 ms | 0 ms (When phase lock fails, < 4ms interruption occurs from Inverter to bypass) |
| | Inverter ← → ECO | <10 ms | |
| EFFICIENCY | | | |
| AC Mode | | > 89% | |
| Battery Mode | | > 87% | |
| BATTERY | | | |
| Long-run Model | Type | Depending on applications | |
| | Numbers | 18 - 20 | |
| | Charging Current | 8.0 A ± 10% (max) | |
| | Charging Voltage | 273VDC ± 1% | |
| PHYSICAL | | | |
| Dimension, D X W X H (mm) | | 592 x 250 x 826 | |
| Net Weight (Kgs) | | 49 | 52 |
| ENVIRONMENT | | | |
| Operation Temperature | | 0 ~ 40°C (the battery life will come down when > 25°C) | |
| Operation Humidity | | < 95% and non-condensing | |
| Operation Altitude** | | <1000m | |
| Acoustic Noise Level | | Less than 60dB @ 1 Meter | Less than 65dB @ 1 Meter |
| MANAGEMENT | | | |
| Smart RS-232/USB | | Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC | |
| SNMP Card | | Optional | Inbuilt |
| | | Power management from SNMP manager and web browser | |

* Derate capacity to 90% when the output voltage is adjusted to 208VAC and parallel system.

** If the UPS is installed or used in a place where the altitude is above 1000m, the output power must be derated one percent per 100m.

*** Product specifications are subject to change without further notice

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