

Luminous PRO 10K LD10K3P1P & LD10K3P3P

Power Your Business and Stay Ahead

Luminous offers state of the art technology with a wide range of Backup solutions for the SOHO enterprise segment to safeguard critical applications and devices from being crippled or damaged by erratic power fluctuations and bad power conditions.



Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- 50 Hz/60 Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Maintenance bypass available
- Optional N+X parallel redundancy



MODEL		LD10K3P1P	LD10K3P3P
PHASE		3 phase in / 1 phase out	3 phase in / 3 phase out
Capacity		10000VA/ 9000W	
INPUT			
Nominal Voltage		3 x 400VAC (3Ph+N)	
Voltage Range		190-520VAC (3-phase) @ 50% load 305-478VAC (3-phase) @ 100% load	
Frequency Range		46~54Hz or 56~64Hz	
Power Factor		≥ 0.99 @ 100% load	
OUTPUT			
Output Voltage		208/220/230/240VAC	3 x 400VAC (3Ph+N)
AC Voltage Regulation (Batt. Mode)		± 1%	
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz	
Frequency Range (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ± 0.1Hz	
Current Crest Ratio		3:1(max.)	
Harmonic Distortion		≤ 2% THD (Linear Load) ≤ 5% THD (Non-Linear Load)	
Transfer Time	AC mode to Battery mode	zero	
	Inverter to Bypass	zero	
Waveform (Batt. Mode)		Pure Sinewave	
EFFICIENCY			
AC Mode		91.5%	90.5%
ECO Mode		97.0%	96.0%
Battery Mode		87.0%	87.0%
BATTERY			
Long-run Model	Battery Type & Numbers	Depending on capacity of external batteries	
	Charging Current (max.)	10Amps	
	Charging Voltage	273VDC ± 1%	
INDICATORS			
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer and Fault conditions	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every second	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Long-run Model	Dimension, D X W X H (mm)	592 x 250x 576	592 x 250 x 826
	Net Weight (kgs)	28	38
ENVIRONMENT			
Operating Humidity		0-95% RH @ 0-40°C (non-condensing)	
Noise Level		Less than 58dB @ 1 Meter	Less than 60dB @ 1 Meter
MANAGEMENT			
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	

** When using internal batteries from 18-19, the unit will de-rate according to below formula: P= P rating x N/20

*** Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC

* Product specifications are subject to change without further notice

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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.

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