



## Power Solutions that empower and protect your business...

Luminous Online UPS with isolation are power packed work horses designed to protect your mission critical applications and equipment from downtime, data loss, corruption and power outages that hamper your productivity and cripple your equipment. LDT series is equipped with state of the art technology and a range of features that includes Isolation Transformer, Input Power Factor Correction and Eco Mode for energy saving to ideally work in a harsh environment. Design innovation coupled with a quality and customer centric attitude is what enabled Luminous to be adjudged as a Super Brand in 2016 once again.

### KEY FEATURES

- True double-conversion
- Micro-processor control optimizes reliability
- Input power factor correction
- Wide input voltage (110 V – 280 V)
- ECO mode for energy saving
- Generator compatible
- Wide temperature application (0-50°C)
- Built-in isolation transformer at output
- Comprehensive display allows easy monitoring and access of UPS status

### KEY APPLICATIONS

- IT systems and equipment (computers, printers, monitors etc.).
- Process controls, testing & measuring instruments.
- Medical, electronic health-care equipment & Life-support systems in hospitals.
- Safety systems in power stations.
- Audio-Visual equipment.
- Bank branches - ATM's



MODEL	LD1000T	LD2000T	LD3000T
DESCRIPTION	Online UPS with Isolation		
PHASE	Single phase with ground		
CAPACITY	1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
INPUT	200/208/220/230/240VAC		
Nominal Voltage	200/208/220/230/240VAC		
Voltage Range	Low Line Transfer	160 VAC / 140 VAC / 120 VAC / 110 VAC $\pm$ 5 % ( based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)	
	Low Line Comeback	175 VAC / 155 VAC / 135 VAC / 125 VAC $\pm$ 5 % ( based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)	
	High Line Transfer	300 VAC	
	High Line Comeback	290 VAC	
Frequency Range	40Hz ~ 70 Hz		
Power Factor	$\leq$ 0.99 @ Nominal Voltage (100% load)		
OUTPUT	200/208/220/230/240VAC		
Output Voltage	200/208/220/230/240VAC		
Voltage Regulation	$\pm$ 1%		
Frequency Range (Synchronized Range)	47~ 53 Hz or 57 - 63 Hz		
Frequency Range (Batt. Mode)	50 Hz or 60Hz $\pm$ 0.1 Hz		
Current Crest Ratio	3:1		
Harmonic Distortion	$\leq$ 3 % THD (Linear Load), $\leq$ 5 % THD (Non-linear Load)		
Transfer Time	AC to DC	Zero	
	Inverter to Bypass	4 ms (Typical)	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY	85% max		
To AC Mode	85% max		
To Battery Mode	80% max		
BATTERY	SMF & Tubular ( Depending on applications)		
Long-run Model*	Battery Type	SMF & Tubular ( Depending on applications)	
	Numbers	3	8
	Charging Current (max.)	2A/4A/8A/12A (Adjustable, up to 12A)	2A/4A/8A/10A (Adjustable, up to 10A)
	Charging Voltage	41.0 VDC $\pm$ 1%	109.4 VDC $\pm$ 1%
INDICATORS	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators		
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators		
ALARM	Sounding every 4 seconds		
Battery Mode	Sounding every second		
Low Battery	Sounding twice every second		
Overload	Continuously sounding		
Fault			
PHYSICAL	282 x 145 x 332		
Dimension, D x W x H (mm)	282 x 145 x 332	397 x 145 x 332	397 x 145 x 332
Net Weight (kgs)	14	21	23
ENVIRONMENT	0-90 % RH @ 0- 50°C (non-condensing)		
Humidity	Less than 55dBA@1 meter		
Noise Level			
MANAGEMENT	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC		
Smart RS-232/USB	Power management from SNMP manager and web browser		
Optional SNMP Card			

\* Load Derating : 0-40°C@full load / 40-50°C@80% load

\*\* Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 200/208VAC

\* Product specifications are subject to change without any prior notice

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## Driven by Excellence, Powered by Innovation.



Luminous LD6000T and LD10000T UPS are designed specifically to cater to the backup power requirements of the SMB and Enterprise segment. This innovative line of power backup units are equipped with galvanic isolation design to withstand all kinds of load and have fully coated PCBAs to ensure optimum performance in harsh environments. The LDT series is the ideal choice for enterprises specializing in the medical and print domains.

### Features

- Galvanic isolation design to withstand all kinds of load
- Unique ventilation design for effective heat dissipation
- Fully coated PCBAs to optimally work in harsh environments
- High short-circuit and overload capabilities
- Wide input voltage and frequency range to ideally work in harsh environments
- Built-in Maintenance bypass switch
- Output power factor 0.8

MODEL	LD6000T	LD10000T
PHASE	Single phase with ground	
Capacity	6KVA/4.8KW	10KVA/8KW
<b>INPUT</b>		
Nominal Voltage	208VAC/220VAC/230VAC	
Voltage Range	165VAC ~ 285VAC @ 16 pcs of batteries 185VAC ~ 285VAC @ 18 pcs of batteries	
Frequency Range	40Hz ~ 55Hz @ 50Hz system 56Hz ~ 64Hz @ 60Hz system	
<b>OUTPUT</b>		
Output Voltage	208VAC/220VAC/230VAC	
Voltage Regulation	± 1%	
Frequency Range (Synchronized Range)	45~55Hz or 56~64Hz	
Frequency Range (Batt. Mode)	50Hz ± 0.1Hz or 60Hz ± 0.1Hz	
Current Crest Ratio	3:1	
Harmonic Distortion	≤ 3% THD (Linear Load) ≤ 5% THD ( Non-Linear Load)	
Transfer Time	AC to DC	zero
	Inverter to Bypass	zero
Waveform (Batt. Mode)	Pure Sine Wave	
<b>EFFICIENCY</b>		
AC Mode	88%	
Battery Mode	92%	
<b>BATTERY</b>		
Numbers	16 pcs (192VDC)	
Charging Current (max.)	Default: 8A ± 10%; Max 2A, 4A, 8A (Adjustable)	
Charging Voltage	218.4V ± 1%	
<b>INDICATORS</b>		
LCD Panel	Load level, Battery level, AC mode, Battery mode, Bypass mode and Fault indicators	
<b>ALARM</b>		
Battery Mode	Sounding every 4 seconds	
Low Battery	Sounding every second	
Overload	Sounding twice every second	
Fault	Continuously sounding	
<b>PHYSICAL</b>		
Dimension, D X W X H (mm)	562 x 250 x 830	
Net Weight (kgs)	62	86
<b>ENVIRONMENT</b>		
Operating Temperature	0 ~ 50°C (battery life cycle will be shorter when temperature is above 25°C)	
Operating Humidity	<95% and non-condensing	
Noise Level	Less than 60dB @ 1 Meter	
<b>MANAGEMENT</b>		
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Unix, Linux and MAC	
Dry Contact	Five signals: AC failure, low battery, UPS alarm, bypass and UPS fault	
Optional SNMP	Power management from SNMP manager and web browser	

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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

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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) $\pm$ 3% @ 50% load 176VAC (L-N) $\pm$ 3% @ 100% load	110VAC (Ph-N) $\pm$ 3% @ 50% load 176VAC (Ph-N) $\pm$ 3% @ 100% load
	Low Line Comeback	Low Line Loss Voltage + 10V	
	High Line Loss	300VAC (L-N) $\pm$ 3% @ 50% load 276VAC (L-N) $\pm$ 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		$\geq$ 0.99 @ 100% load	
OUTPUT			
Output Voltage		208/220/230/240VAC	3 x 400VAC (3Ph+N)
AC Voltage Regulation		$\pm$ 1%	
Frequency Range (Synchronized Range)		46Hz ~ 54Hz @ 50Hz system or 56Hz ~ 64Hz @ 60Hz system	
Frequency Range (Batt. Mode)		50Hz $\pm$ 0.1Hz or 60Hz $\pm$ 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		$\leq$ 2% 100% (Linear Load); $\leq$ 5% 100% (Non-Linear Load)	
Transfer Time	Line $\leftrightarrow$ Battery	0 ms	
	Inverter $\leftrightarrow$ Bypass	0 ms	0 ms (When phase lock fails, < 4ms interruption occurs from Inverter to bypass)
	Inverter $\leftrightarrow$ 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 $\pm$ 10% (max)	
	Charging Voltage	273VDC $\pm$ 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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