

## LD1000IN / 2000IN / 3000IN

# Versatile Backup Power Solutions

### Online UPS for standard backup time

Luminous LDIN Series – 1/2/3 KVA Online UPS with internal battery are a technologically driven range of models that provide safe power to your critical applications and protect your sensitive equipment from downtime, data loss and corruption that inevitably hamper your productivity.



### Key Applications

- Computers, Servers, Peripherals & Networking Switches
- Gaming Parlours & ATM's
- Professional AV Equipment & Home Theatres
- Music Recording Studios
- Workstations & Design Studios

### Features

- True double-conversion
- Microprocessor control for optimal reliability
- Input power factor correction
- Output power factor 0.8
- Wide input voltage (110 V – 300 V)
- ECO mode for additional energy saving
- Generator compatible



# LUMINOUS

MODEL		LD1000IN	LD2000IN	LD3000IN
PHASE		Single phase with ground		
INPUT				
Capacity		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
Voltage Range	Low Line Transfer	160 / 140 / 120 / 110 VAC $\pm$ 5% (based on load percentage 100% - 80% / 80% - 70% / 70% - 60% / 60% - 0)		
	Low Line Comeback	175 / 155 / 135 / 125 VAC $\pm$ 5% (based on load percentage 100% - 80% / 80% - 70% / 70% - 60% / 60% - 0)		
	High Line Transfer	280 VAC $\pm$ 5%		
	High Line Comeback	270 VAC $\pm$ 5%		
Frequency Range		40 ~70 Hz		
Power Factor		$\geq$ 0.99 @ Normal Voltage (Input Voltage)		
OUTPUT				
Output Voltage		200 / 208 / 220 / 230 / 240 VAC		
AC Voltage Regulation		$\pm$ 1% (Batt. Mode)		
Frequency Range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz		
Frequency Range (Batt. Mode)		50 Hz $\pm$ 0.25 Hz or 60 Hz $\pm$ 0.3 Hz		
Overload		100%~110%:audible warning, 110%~130%:UPS shut down in 30 seconds at battery mode or transfer to bypass when the utility is normal, >130%:UPS shuts down immediately at battery mode or transfer to bypass mode when the utility is normal		
Current Crest Ratio		3:1		
Harmonic Distortion		$\leq$ 3% THD (Linear Load) $\leq$ 6% THD (Non-linear Load)		
Transfer Time	AC to DC	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		86%	90%	
Battery Mode		83%	86%	87%
Eco Mode		93%	95%	96%
BATTERY				
Standard Model	Battery Type & Numbers	12 V / 7 AH X 3	12 V / 7 AH X 6	12 V / 9 AH X 6
	Charging Current (max.)	1.0A (max)		
	Charging Time	4 hours recover to 90% capacity (Typical)		
	Charging Voltage	41.0 VDC $\pm$ 1%	82.1 VDC $\pm$ 1%	
INDICATORS				
LCD or LED		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators		
ALARM				
Battery Mode		Sounding every 4 seconds		
Low Battery		Sounding every second		
Overload		Sounding twice every second		
Fault		Continuously sounding		
PHYSICAL				
Standard Model	Dimension, D X W X H (mm)	397 x 145 x 220	419 x 190 x 318	
	Net Weight (kgs)	13	26	28
ENVIRONMENT				
Humidity		20-90 % RH @ 0- 40°C (non-condensing)		
Noise Level		Less than 50dBA @ 1 Meter		
MANAGEMENT				
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

\* Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC

\* Product specifications are subject to change without further notice

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