

NBK

True On-line Double Conversion UPS

High Reliability Design

- Wide input range
- Wide input frequency range, available for all types of generator
- Built-in output isolation transformer
- Pure sine wave output

Comprehensive and Reliable Protection

- Built-in static electronic bypass switch
- EMI/RFI and power line noise protection
- Surge, spike, blackout, brownout, overload, short circuit and over temperature protection
- Battery under voltage, over voltage protection
- Zero time transfer full static switch
- Built-in sealed lead acid (maintenance free) battery
- Self-testing function before start-up
- DC start function and AC start without battery function
- Extended backup time with battery extension pack

Communication Interface

- RS-232 serial interface port for UPS monitoring and management software
- RS-485 port (option)
- Dry contact port (option)
- SNMP/HTTP capability (option)



Battery Extension Unit
for NBK-10K

True On-line Double Conversion Sine Wave UPS



NBK-series True On-line Double Conversion Sine Wave UPS

SPECIFICATIONS

MODEL		NBK-2K	NBK-4000	NBK-6K	NBK-10K
CAPACITY		2 kVA / 1.8 kW	4 kVA / 2.8 kW	6 kVA / 5.4 kW	10 kVA / 9 kW
INPUT	Voltage	220, 230 Vac single phase			
	Voltage range	- 30% to +35%	- 25% to +35%		
	Frequency	50 / 60 Hz ± 5%			
	Power factor	> 0.97*			
OUTPUT	Voltage	220 Vac ± 1%			
	Frequency	50 / 60 Hz ± 0.5%			
	Wave form	Pure sine wave (sinusoidal)			
	Total Harmonic distortion	Less than 3% at full linear load			
	Overload capability	> 125% for 1 min, ≤ 150% for 200 ms to bypass			
	Crest factor ratio	3 : 1			
	Protection	Low battery voltage shutdown, Overload, Over temperature, short circuit, Noise			
EFFICIENCY	AC to AC (at full load)	85%			
BATTERY	Type	Sealed lead acid (maintenance free) rechargeable			
	Voltage	48 Vdc		192 Vdc	
	Amount x Capacity	(4 x 2 string) x 9Ah	(4 x 2 string) x 9Ah	16 x 9 Ah	-
	Backup time	Depending on connected loads			
	Continuous recharging time	8 - 10 hours to 90% after full load discharge			
	Management	End of life indicator and alarm			
TRANSFER TIME	Mains fail or recover	Zero time (True on-line UPS)			
	UPS to bypass or vice versa	Zero time			
	Auto reverse	After overload return to normal			
MANUAL CONTROLS	Maintenance bypass switch	optional			
INDICATOR	LED	Input, Battery, Output, Bypass, Fault			
	LCD display	Input (voltage / frequency), Output (voltage / frequency), Load power (%),Battery voltage, Temperature			
AUDIBLE ALARM	Buzzer	Mains failure, low battery, replace battery, overload, UPS abnormal			
FEATURES	Low battery shutdown	yes			
	Over temperature	automatic transfer to bypass mode			
	Output short circuit	Limit current and automatic shutdown			
	UPS abnormal	automatic transfer to bypass mode			
	Manual self-test	yes			
	DC start	yes		yes	
	AC start without battery	yes		yes	
CONNECTION	Main input	Terminal block with circuit breaker and TIS-166 power cord		Terminal block with circuit breaker	
	Output	4 Outlets	Terminal block	Terminal block	
COMMUNICATION INTERFACE	RS-232 port	Serial interface port can be connected to PC, workstations or servers for automatic unattended shutdown. using with the UPS monitoring and management software ⁽¹⁾			
	RS-485 port	optional			
	Dry contact	optional			
	SNMP/HTTP capability	optional			
ACOUSTIC NOISE	At 1 metre	< 58 dBA			
ENVIRONMENT	Temperature	0 - 40°C			
	Relative humidity	0 - 95% (non-condensing)			
DIMENSIONS	UPS	23 x 70.5 x 62 cm			30.5 x 86.7 x 65 cm
	Standard battery unit	Internal battery			25 x 50 x 52.5 cm
WEIGHT (Approximate in kg)	UPS (no battery)	60 kg	65 kg	62 kg	115 kg
	UPS include standard battery	82 kg	87 kg	106 kg	-
	Standard battery unit	Internal battery			56 kg
CONFORMANCE	Safety	IEC/EN62040-1, IEC/EN 62477-1			
	EMC	IEC/EN 62040-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, TIS-1291 Part 1-2553, TIS-1291 Part 2-2553, TIS-1291 Part 3-2555			

* With optional Filter. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

⁽¹⁾ IUPS monitoring and management software capable to work with these OS below.

- Windows 98 / Me / 2000 / 2003 / XP / Vista
- Windows 7 / 10 / 11
- MS DOS
- Novell Netware v3.1x / 4.x / 5.x
- Free BSD 4.x
- Linux

Authorized Distributor

LEO POWER SUPPLY CO.,LTD.

27, 4th Floor, Soi Bangna-Trad Rd 34, Bangna Tai, Bangna, Bangkok 10260 THAILAND

Tel. 0-2746-9500 e-mail : marketing@lpsups.com, www.lpsups.com

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