

NBK PLUS

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
- Self-testing function before start-up
- DC start function and AC start without battery function

Optimization of High-performance Battery

- Advanced floating switching and charging technology
- Built-in sealed lead acid (maintenance free) battery (for 2kVA to 6 kVA models)
- Extended backup time with battery extension pack

Communication Interface

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



NBK-2K PLUS
NBK-4K PLUS
NBK-6K PLUS

NBK-10K PLUS

Battery Extension Unit
for NBK-10K PLUS



MASCI
ISO 9001 QMS/1098/349
ISO 14001 EMS/1007/045
ISO 45001 OHSMS/2022/105



NSC-TIS-TIS 17021
QMS 002 / EMS 002 /
OHSMS 001



TIS 1291 Part 1-2553
TIS 1291 Part 2-2553
TIS 1291 Part 3-2553
LEONICS CO., LTD.



True On-line Double Conversion Sine Wave UPS

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

MODEL		NBK-2K PLUS	NBK-4K PLUS	NBK-6K PLUS	NBK-10K PLUS
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	165 ~ 286 Vac			
	Frequency	50 / 60 Hz ± 5%			
	Power factor	> 0.97*			
OUTPUT	Voltage	220 Vac ± 0.5%			
	Phase	Single phase			
	Frequency	50 / 60 Hz ± 0.5%			
	Wave form	Pure sine wave (sinusoidal)			
	Power factor	0.9	0.7	0.9	0.9
	Total Harmonic distortion	≤ 2% at full linear load			
	Crest factor ratio	3 : 1			
EFFICIENCY	AC to AC (at full load)	> 82%	> 84%		> 85%
BATTERY	Type	Sealed lead acid (maintenance free) rechargeable			
	Capacity x Amount	12V 9Ah x 8 (12, 16 optional)		12V 9Ah x 16	12V 9Ah x 16
	Configuration	Internal battery			External battery
	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			
		Zero time (True on-line UPS)			
TRANSFER TIME	AC mode to battery mode				
FEATURES	Low battery shutdown	yes			
	Overload capability	110% ≤ Load ≤ 150% for 1 min, > 150% for 200 ms to bypass			
	Over temperature	Automatic transfer to bypass mode			
	Output short circuit	Limit current and automatic shutdown			
	UPS abnormal	Automatic transfer to bypass mode			
	Self-test before start-up	yes			
	DC start	yes			
INDICATOR	LED	Input, Output, Bypass, Low battery, Overload, Fault			
	LCD display	Input (voltage / frequency), Output (voltage / frequency), Battery voltage, Load power (%), Temperature, Status			
AUDIBLE ALARM	Buzzer	Mains failure, low battery, replace battery, overload, UPS abnormal			
CONNECTION		Terminal blocks			
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	yes			
	Dry contact	optional			
	SNMP/HTTP capability	optional			
ACOUSTIC NOISE	At 1 metre	< 60 dBA			
ENVIRONMENT	Temperature	0 ~ 40°C			
	Relative humidity	0 ~ 95% (non-condensing)			
DIMENSIONS (W x H x D)	UPS	23 x 72 x 58 cm			25 x 63.5 x 50 cm
	Standard battery unit	Internal battery			25 x 50 x 52.5 cm
WEIGHT (Approximate in kg)	UPS (no battery)	51 kg	49 kg	60 kg	69 kg
	UPS include standard battery	70 kg	68 kg	98 kg	-
	Standard battery unit	Internal battery			71 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) UPS monitoring and management software capable to work with these OS below.

- Windows XP / 7 / 10 / 11
- Windows Server 2019
- MS DOS
- Mac OS X, OS X 10.5.5
- Novell Netware v3.1x / 4.x / 5.x / 6.x
- Free BSD 2.x / 3.x / 4.x
- Linux 2.x

Authorized Distributor

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