



10KVA - 80KVA

PowerBridge Neo 3 II Series

True Double Conversion Online UPS

The PowerBridge Neo 3 II series is a tower type design with a true double conversion online three-phase UPS system. This series comes with an output power factor of 1.0/0.9 ensures high efficiency and performance.

Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates it to provide maximum protection to powered loads. Its highly flexible design allows dual input to support various input configuration. The UPS also comes with an Emergency Power Off (EPO) function which allows UPS to be shut off in the event of an emergency.

The PowerBridge Neo 3 II series system is designed to provide clean, high-quality power to mission-critical applications and equipment.

Features

- User Friendly LCD Display
- Tower Type Design
- Output Power Factor - 1.0 / 0.9
- Active Power Factor Correction in all Phases
- Dual Input
- 4.3"/5" LCD Touch Screen(10KVA - 80KVA Model)
- 10" LCD Touch Screen (100KVA - 200KVA Model)
- ECO Mode Function for Energy Saving
- Emergency Power Off (EPO) Function
- Adjustable Charging Current
- Optional Parallel Operation with Common Battery
- Comes with RS 232 & USB Port, SNMP Slot and Power Management Software



Data Center



Healthcare



Financial
Facilities



Transportation



100KVA - 200KVA

Key Advantages

Output Power Factor 1.0

For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advance performance for 10KVA - 80KVA models only.

Active Power Factor Correction In All Phases

Power factor correction is active in all phases to help improve the efficiency on input

Dual Inputs

PowerBridge Neo 3 II series also available in dual inputs to support various inputs to have flexibility for system configuration

50Hz/60Hz Frequency Converter Mode

Lock output frequency at 50Hz or 60Hz for power sensitive equipments

ECO Mode Operation for Energy Saving

ECO mode improves the efficiency up to 98% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

Emergency Power Off Function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the UPS system.

Adjustable Charging Current

Users can adjust the charging current via LCD setting based on applications

Powerful Charger Design

PowerBridge Neo 3 II series comes with built-in 12A charger for 10K-40KVA models and 24A for 60K-80KVA models. Its to support long backup time applications when connecting to a big capacity of external battery cabinets

Touch Screen LCD Display (Optional)



4.3"/5" Touch LCD
10KVA - 80KVA
Model



10" Touch LCD
100KVA - 200KVA
Model

Generator Compatible

PowerBridge Neo 3 II series which able to accept generator as power source and able to convert perfect power to the connected load

Parallel Operation With Common Battery (Optional)

The system can be operated in parallel, increasing the capacity and performance of the UPS system. This parallel UPS can share common battery packs which will greatly reduce the expenses and reach the same performance.

Model	PowerBridge Neo 3 II 10K-80K	PowerBridge Neo 3 II 100K-200K
Max Parallel Units	6	4

High Overload Capability

Able to support 110% overload capacity for 60minutes and up to 1 minute overload condition at 150% load.

Adjustable Battery Design

The number of connected batteries can be adjusted flexibility based on different power demands. This feature can allow the UPS system to keep running even when some battery packs are damaged.

Dynamic Password Feature (10K-80K Model)

The password is automatically generated from the utility tool. Each time when it is required to change service-related settings, this utility tool would generate a unique password on time basis. This is to secure the UPS from unexpected operation due to unauthorized settings.

Power Walk-In Function

Designed to have a flexible power walk-in by the way of adjusting the power walk-in time. This setting will optimize generator sizing and reduce the impact to the AC source by having different walk-in time period for different paralleled UPS system when AC grid is recovered.

Front & Rear Panel

10K-80KVA



- 1. 4.3"/5" Touch LCD Panel
- 2. RS-232 Communication Port
- 3. USB Communication Port
- 4. Emergency Power Off (EPO) Connector
- 5. Share Current Port (Only for Parallel Model)
- 6. Parallel Connection
- 7. Intelligent Slot
- 8. External Battery Connector
- 9. Line Input Breaker Switch
- 10. Maintenance Bypass Switch (Optional)

- 11. Input/Output Terminal
- 12. Line Input Terminal
- 13. Output Terminal
- 14. Input Grounding Terminal
- 15. Output Grounding Terminal
- 16. Bypass Input Breaker / Switch
- 17. Bypass Input Terminal
- 18. Grounding Terminal
- 19. Output Breaker

Front & Rear Panel

100K-200KVA



- 1. 10" Touch LCD Panel
- 2. Maintenance Bypass Switch (Optional)
- 3. Input Terminal
- 4. Output Terminal



Technical Specification:

MODEL		PowerBridge Neo 3 II	PowerBridge Neo 3 II	PowerBridge Neo 3 II
		10K / 10KS	15K / 15KS	20K / 20KS
CAPACITY (KVA/KW)		10KVA / 10KW	15KVA / 15KW	20KVA / 20KW
PHASE		3-Phase In / 1-Phase Out or 3-Phase In / 3-Phase Out / 1-Phase In / 1-Phase Out		
PARALLEL CAPABILITY		6		
INPUT				
NOMINAL VOLTAGE		3 x 400 VAC (3Ph + N) / 230VAC (1Ph+N)		
VOLTAGE RANGE		110 - 300VAC @ 50% load		
		176 - 276VAC @ 100% load		
FREQUENCY RANGE		46Hz ~ 54Hz or 56Hz ~ 64Hz		
INPUT POWER FACTOR		≥ 0.99 @ 100% Load		
HARMONIC DISTORTION (THDI)		< 4% at full linear load		
OUTPUT				
OUTPUT VOLTAGE		3 x 360*/380/400/415 VAC (3Ph+N) or 208/220/230/240 VAC (Ph-N)		
OUTPUT POWER FACTOR		1.0		
VOLTAGE REGULATION (Batt. Mode)		± 1%		
FREQUENCY RANGE (Synchronized Range)		46Hz ~ 54Hz or 56Hz ~ 64Hz		
FREQUENCY RANGE (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ±0.1Hz		
CURRENT CREST RATIO		3 : 1		
TOTAL HARMONIC DISTORTION (THDv)		≤ 2% @ Linear Load ; ≤ 5% @ Non-Linear Load		
WAVEFORM		Pure Sinewave		
TRANSFER TIME (AC Mode to Battery Mode)		Zero		
TRANSFER TIME (Inverter to Bypass)		Zero		
OUTPUT SOCKET		Hard-Wiring (Terminal Block)		
OVERLOAD (AC Mode)		100 - 110% for 60min, 110-125% for 10min, >150% immediately		
OVERLOAD (Battery Mode)		100 - 110% for 60min, 110-125% for 10min, >150% immediately		
BYPASS				
NOMINAL VOLTAGE		3 x 380/400/415 VAC (3P+N)		
VOLTAGE RANGE		-30% ~ +20% (Adjustable)		
FREQUENCY RANGE (Synchronized Range)		46Hz ~ 54Hz or 56Hz ~ 64Hz		
OVERLOAD CAPABILITY		> 130% 1 minute (default) : continuously working until breaker protection (optional)		
EFFICIENCY				
AC MODE		95.5%		
ECO MODE		98.5%		
BATTERY MODE		94.5%		
BATTERY				
STANDARD MODEL	BATTERY TYPE	12V 9AH	12V 7AH	12V 9AH
	NUMBERS	10 + 10pcs	16 + 16 pcs	
	BACKUP TIME	20 - 30 minutes depending on load		
	RECHARGE TIME	4 Hours to 90% capacity		
	CHARGING CURRENT	1.0A - 12.0A (Adjustable)		
	CHARGING VOLTAGE	± 13.65 x N (N = 10)	± 13.65 x N (N = 16 - 20)	
KS MODEL	BATTERY TYPE	Depending on the capacity of the external batteries		
	NUMBERS	20pcs	32 - 40pcs (Adjustable)	
	BACKUP TIME	Depending on the capacity of the external batteries		
	RECHARGE TIME	Depending on the capacity of the external batteries		
	CHARGING CURRENT	1.0A - 12.0A (Adjustable)		
	CHARGING VOLTAGE	± 136.5 VDC ±10%	± 13.65V x N (N =16-20)	
STATUS INDICATION				
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault		
		4.3"/5" LCD Touch Screen		
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload		
COMMUNICATION				
POWER MANAGEMENT SOFTWARE		Support Window Family, Linux & MAC		
INTERFACE		USB & RS-232 Communication Port		
INTELLIGENT SLOT		AS 400 / SNMP (Optional)		
PHYSICAL				
OPERATING ENVIRONMENT		0-40°C, 0 - 95% Relative Humidity (Non-Condensing)		
NOISE LEVEL		< 65dB @ 1 Meter	<65dB @ 1 Meter	
STANDARD MODEL	DIMENSION (DxWxH)mm	630 x 250 x 826		
	WEIGHT (KG)	103	139	
KS MODEL	DIMENSION (DxWxH)mm	630 x 250 x 826		
	WEIGHT (KG)	36	43	
SAFETY STANDARD				
PROTECTION		IP 20		
UPS SAFETY		IEC/ EN 62040-1		
EMC		IEC/ EN 62040-2		
UPS PERFORMANCE TEST		VFI-SS-111 in accordance with IEC / EN 62040-3		
UPS COMPLIANCE		CE		
WARRANTY				
UPS WARRANTY		2 Years Full Warranty Include Parts, Labour & Battery		

*Specification subjects to change without prior notice

Technical Specification:

MODEL		PowerBridge Neo 3 II 30K / 30KS		PowerBridge Neo 3 II 40K / 40KS		PowerBridge Neo 3 II 60KS		PowerBridge Neo 3 II 80KS	
CAPACITY (KVA/KW)		30KVA / 30KW		40KVA / 40KW		60KVA / 60KW		80KVA / 80KW	
PHASE		3-Phase In / 3-Phase Out							
PARALLEL CAPABILITY		6							
INPUT									
NOMINAL VOLTAGE		3 x 380/400/415 VAC (3Ph + N)							
VOLTAGE RANGE		-30% ~ +20%							
FREQUENCY RANGE		46Hz ~ 70Hz							
INPUT POWER FACTOR		≥ 0.99 @ 100% Load							
HARMONIC DISTORTION (THDI)		< 4% at full linear load							
OUTPUT									
OUTPUT VOLTAGE		3 x 360°/380/400/415 VAC (3Ph+N)							
OUTPUT POWER FACTOR		1.0							
VOLTAGE REGULATION (Batt. Mode)		± 1%							
FREQUENCY RANGE (Synchronized Range)		46Hz ~ 54Hz or 56Hz ~ 64Hz							
FREQUENCY RANGE (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ±0.1Hz							
CURRENT CREST RATIO		3 : 1							
TOTAL HARMONIC DISTORTION (THDv)		≤ 2% @ Linear Load ; ≤ 5% @ Non-Linear Load							
WAVEFORM		Pure Sinewave							
TRANSFER TIME (AC Mode to Battery Mode)		Zero							
TRANSFER TIME (Inverter to Bypass)		Zero							
OUTPUT SOCKET		Hard-Wiring (Terminal Block)							
OVERLOAD (AC Mode)		100 - 110% for 60min, 110-125% for 10min, >150% immediately							
OVERLOAD (Battery Mode)		100 - 110% for 60min, 110-125% for 10min, >150% immediately							
BYPASS									
NOMINAL VOLTAGE		3 x 380/400/415 VAC (3P+N)							
VOLTAGE RANGE		-30% ~ +20% (Adjustable)							
FREQUENCY RANGE (Synchronized Range)		46Hz ~ 54Hz or 56Hz ~ 64Hz							
OVERLOAD CAPABILITY		> 130% 1 minute (default) : continuously working until breaker protection (optional)							
EFFICIENCY									
AC MODE		96.0%							
ECO MODE		99.0%							
BATTERY MODE		96.0%							
BATTERY									
STANDARD MODEL	BATTERY TYPE	12V 7AH		12V 9AH		N/A			
	NUMBERS	16 + 16pcs x 2 string							
	BACKUP TIME	20 - 30 minutes depending on load							
	RECHARGE TIME	9 Hours to 90% capacity							
	CHARGING CURRENT	1.0A - 12.0A (Adjustable)		1.0A - 16.0A (Adjustable)					
	CHARGING VOLTAGE	± 218VDC ±10%							
KS MODEL	BATTERY TYPE	Depending on the capacity of the external batteries							
	NUMBERS	32 - 40pcs (Adjustable)							
	BACKUP TIME	Depending on the capacity of the external batteries							
	RECHARGE TIME								
	CHARGING CURRENT	1.0A - 12.0A (Adjustable)		1.0A - 16.0A (Adjustable)		2.0A -24A (Adjustable)		2.0A -32A (Adjustable)	
	CHARGING VOLTAGE	± 13.65V x N (N = 16-20)							
STATUS INDICATION									
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault							
		4.3"/5" LCD Touch Screen							
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload							
COMMUNICATION									
POWER MANAGEMENT SOFTWARE		Support Window Family, Linux & MAC							
INTERFACE		USB & RS-232 Communication Port							
INTELLIGENT SLOT		AS 400 / SNMP (Optional)							
PHYSICAL									
OPERATING ENVIRONMENT		0-40°C, 0 - 95% Relative Humidity (Non-Condensing)							
NOISE LEVEL		< 63dB @ 1 Meter				< 65dB @ 1 Meter			
STANDARD MODEL	DIMENSION (DxWxH)mm	815 x 300 x 1000				N/A			
	WEIGHT (KG)	225		250					
KS MODEL	DIMENSION (DxWxH)mm	815 x 300 x 1000				790 x 360 x 1010			
	WEIGHT (KG)	60		67		108		113	
SAFETY STANDARD									
PROTECTION		IP 20							
UPS SAFETY		IEC/ EN 62040-1							
EMC		IEC/ EN 62040-2							
UPS PERFORMANCE TEST		VFI-SS-111 in accordance with IEC / EN 62040-3							
UPS COMPLIANCE		CE							
WARRANTY									
UPS WARRANTY		2 Years Full Warranty Include Parts, Labour & Battery							

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Technical Specification:

MODEL		PowerBridge Neo 3 II 100KS	PowerBridge Neo 3 II 120KS	PowerBridge Neo 3 II 160KS	PowerBridge Neo 3 II 200KS
CAPACITY (KVA/KW)		100KVA / 90KW	120KVA / 108KW	160KVA / 144KW	200KVA / 180KW
PHASE		3-Phase In / 3-Phase Out			
PARALLEL CAPABILITY		4			
INPUT					
NOMINAL VOLTAGE		3 x 380/400/415 VAC (3Ph + N)			
VOLTAGE RANGE		208 - 478 VAC (3-phase) @ 70% load 305 - 478 VAC (3-phase) @ 100% load			
FREQUENCY RANGE		46Hz ~ 70Hz			
INPUT POWER FACTOR		≥ 0.99 @ 100% Load			
HARMONIC DISTORTION (THDI)		< 3% at full linear load			
OUTPUT					
OUTPUT VOLTAGE		3 x 380/400/415 VAC (3Ph+N)			
OUTPUT POWER FACTOR		0.9			
VOLTAGE REGULATION (Batt. Mode)		± 1%			
FREQUENCY RANGE (Synchronized Range)		46Hz ~ 54Hz or 56Hz ~ 64Hz			
FREQUENCY RANGE (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ±0.1Hz			
CURRENT CREST RATIO		3 : 1			
TOTAL HARMONIC DISTORTION (THDv)		≤ 2% @ Linear Load ; ≤ 4% @ Non-Linear Load			
WAVEFORM		Pure Sinewave			
TRANSFER TIME (AC Mode to Battery Mode)		Zero			
TRANSFER TIME (Inverter to Bypass)		Zero			
OUTPUT SOCKET		Hard-Wiring (Terminal Block)			
OVERLOAD (AC Mode)		105 - 110% for 1hr, 111-125% for 10min, 126-150% for 1min, >150% 200ms			
OVERLOAD (Battery Mode)		105 - 110% for 1hr, 111-125% for 10min, 126-150% for 1min, >150% 200ms			
BYPASS					
NOMINAL VOLTAGE		3 x 380/400/415 VAC (3P+N)			
VOLTAGE RANGE		-30% ~ +20%			
FREQUENCY RANGE (Synchronized Range)		+/- 1Hz, +/- 2Hz, +/- 4Hz (default: 4Hz)			
OVERLOAD CAPABILITY		105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms			
EFFICIENCY					
AC MODE		94.0%			
ECO MODE		98.0%			
BATTERY MODE		93.0%			
BATTERY					
STANDARD MODEL	BATTERY TYPE	N/A			
	NUMBERS				
	BACKUP TIME				
	RECHARGE TIME				
	CHARGING CURRENT				
	CHARGING VOLTAGE				
KS MODEL	BATTERY TYPE	Depending on the capacity of the external batteries			
	NUMBERS	32 - 40pcs (Adjustable)			
	BACKUP TIME	Depending on the capacity of the external batteries			
	RECHARGE TIME				
	CHARGING CURRENT	24A	32A	40A	48A
	CHARGING VOLTAGE	± 13.7V x N (N = 16-20)			
STATUS INDICATION					
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault			
		10" LCD Touch Screen			
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload			
COMMUNICATION					
POWER MANAGEMENT SOFTWARE		Support Window Family, Linux & MAC			
INTERFACE		USB & RS-232 Communication Port			
INTELLIGENT SLOT		AS 400 / SNMP (Optional)			
PHYSICAL					
OPERATING ENVIRONMENT		0-40°C, 0 - 95% Relative Humidity (Non-Condensing)			
NOISE LEVEL		< 70dB @ 1 Meter		< 73dB @ 1 Meter	
STANDARD MODEL	DIMENSION (DxWxH)mm	N/A			
	WEIGHT (KG)				
KS MODEL	DIMENSION (DxWxH)mm	940 x 567 x 1015		1040 x 567 x 1452	
	WEIGHT (KG)	194	229	306	340
SAFETY STANDARD					
PROTECTION		IP 20			
UPS SAFETY		IEC/ EN 62040-1			
EMC		IEC/ EN 62040-2			
UPS PERFORMANCE TEST		VFI-SS-111 in accordance with IEC / EN 62040-3			
UPS COMPLIANCE		CE			
WARRANTY					
UPS WARRANTY		2 Years Full Warranty Include Parts, Labour & Battery			

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