BI Series

10 kVA ~ 20 kVA (3:1)













Data Center



Malls & Facilities





Emergency

weight [Kg]

Office

1. Generator rating	ı≥2×UPS rating
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^{2.} Could be adjusted by software. %10 derating for 208VAC/200VAC.

Model	BI 10kVA 3:1	BI 15kVA 3:1	BI 20kVA 3:1
	Input		
Input voltage	•		
Rated voltage	380VAC/220VAC		
Phase	three phases with o	ground	
Turn on voltage range	(120± 5~274± 5) VAC		
Bypass voltage range	(60± 5~300± 5) VAC		
Rated frequency	50Hz		
Input power factor			
Input power factor	> 0.95		
Generator	Support generator input ¹		
Input current			
Rated current	14A	21A	27A
Input THDI	≤ 30%		
	Output		
Output power	-		
VA/watt	10kVA/8kW	15kVA/12kW	20KVA/16kW
Rated voltage	220VAC		
Phase	one phase with ground		
Voltage range	200/208/220/230/240VAC ²		
Voltage regulation	±1%		
Voltage distortion	≤ 7% ³		
	≤3% ⁴		
Crest ration	3:1		
Output frequency range			
Normal mode	 Same as input frequency (46Hz~54Hz) 50 Hz (Input frequency>54Hz or Input frequency<46Hz) 		
Battery mode	(50±0.1) Hz		
Output protection			
Rating protection	50A Breaker	80A Breaker	100A Breaker
	Battery and charge	r	
Battery			
Rated voltage	240 Vdc		
Type/Rating	Sealed Lead Acid (SLA) 12 V		
Battery quantity	20		
Charger current	5A		
	Machinery feature	S	
Dimension and weight			
Dimensions (D \times W \times H) [mm]	501×260×533		

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^{3.} Full RCD load

^{4.} Full R load

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Features

- Advanced DSP control technology, rectification and inversion are controlled by DSP
- System efficiency up to 92%, energy saving rate is doubled
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode
- Output power factor 0.8
- Compact internal layout, small footprint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Linear downgrading in low voltage input reducing battery discharging times
- Linear downgrading in low voltage input reducing battery discharging times
- Active Power Factor Correction Technology, input power factor up to 0.95
- Ability to switch on the UPS by battery in the absence of main power (Cold start)
- Zero switching time for UPS power supply mode when the main power is unstable, ensuring the output is uninterrupted
- Friendly human & machine interface
- Dual input design, supporting independent bypass
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, NET, dry contacts, SNMP card and EPO
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life

Model	BI 10kVA 3:1 BI 15kVA 3:1 BI 20kVA 3:1	
	General	
Realiability		
MTBF/MTTR	>200000 hrs / <30 mins	
Protection		
Full protection functions	Overload, Over Temperature, Output Short Circuit, Battery EOD (Deep Charge), Ac Line & Neutral Reverse Connection Protection; Self Testing	
Low alarm voltage / comeback voltage	(180.8V±4V) / (188.8V±4V)	
Shutdown voltage/ comeback voltage	(160V±4V) / (168V±4V)	
Overcharge protection/ comeback voltage	(249.6V±4V) / (216V±4V)	
Leakage current	< 500uA	
	system	
Efficiency		
Normal mode	> 92%	
Battery mode	> 90%	
Overload		
Normal mode/battery mode	Overload warning only (105%±5%≤load)	
	1min, then transfer to bypass and alarm (105%±5% <load≤125%±5%)< td=""></load≤125%±5%)<>	
	30S, then transfer to bypass and alarm (125%±5% <load≤135%±5%)< td=""></load≤135%±5%)<>	
	300ms, then transfer to bypass and alarm (135%±5% <load)< td=""></load)<>	
Automatically retransfer	YES	
Environment		
Work temperature	0°C~40°C	
Altitude	<1000m	
Work humidity	20%~95%	
Audible noise	≤65dB	
Storage temperature	-15°C~45°C	
Standard		
EMS	IEC61000-4	
EMI	EN55022	
Safety	GB4943-2001/IEC62040-1	
Transportation	GB-T4857-18	
	B-WR129-1(GB-T14715-93)	