

# BI Series

10 kVA - 20 kVA (3:3)



Industry



Medical



Data Center



Transport



Malls & Facilities



Home



Emergency



Office

1. Generator rating  $\geq 2 \times$  UPS rating
2. Could be adjusted by software. %10 derating for 208VAC/200VAC.
3. Full RCD load
4. Full R load

Model	BI 10kVA 3:3	BI 20kVA 3:3
<b>Input</b>		
<b>Input voltage</b>		
Rated voltage	380VAC/220VAC	
Phase	three phases with ground	
Turn on voltage range	(120 $\pm$ 5~274 $\pm$ 5) VAC	
Bypass voltage range	(60 $\pm$ 5~300 $\pm$ 5) VAC	
Rated frequency	50Hz	
<b>Input power factor</b>		
Input power factor	> 0.99	
Generator	Support generator input <sup>1</sup>	
<b>Input current</b>		
Rated current	14A	28A
Input THDI	$\leq 10\%$	
<b>Output</b>		
<b>Output power</b>		
VA/watt	10kVA/8kW	20kVA/16kW
Rated voltage	380VAC/220VAC	
Phase	three phases with ground	
Voltage range	200/208/220/230/240VAC <sup>2</sup>	
Voltage regulation	$\pm 1\%$	
Voltage distortion	$\leq 5\%$ <sup>3</sup> $\leq 3\%$ <sup>4</sup>	
Crest ration	3:1	
<b>Output frequency range</b>		
Normal mode	1. Same as input frequency (46Hz~54Hz) 2. 50 Hz (Input frequency > 54Hz or Input frequency < 46Hz)	
Battery mode	(50 $\pm$ 0.1) Hz	
<b>Output protection</b>		
Rating protection	32A Breaker	50A Breaker
<b>Battery and charger</b>		
<b>Battery</b>		
Rated voltage	192 Vdc	240 Vdc
Type/Rating	long backup/12V/9AH	
Battery quantity	16	20
Charger current	7.5A	6A
<b>Machinery features</b>		
<b>Dimension and weight</b>		
Dimensions (D x W x H) [mm]	533x260x501	710x260x717
weight [Kg]	45	50

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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
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- ◆ 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 3:3	BI 20kVA 3:3
<b>General</b>		
<b>Reliability</b>		
MTBF/MTTR	>200000 hrs / <30 mins	
<b>Protection</b>		
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)	(226V±4V) / (236V±4V)
Shutdown voltage/ comeback voltage	(160V±4V) / (168V±4V)	(200V±4V) / (210V±4V)
Overcharge protection/ comeback voltage	(249.6V±4V) / (216V±4V)	(312V±4V) / (270V±4V)
Leakage current	< 500uA	
<b>system</b>		
<b>Efficiency</b>		
Normal mode	> 91%	
Battery mode	> 89%	
<b>Overload</b>		
	Overload warning only (105%±5%≤load)	
	1min, then transfer to bypass and alarm (105%±5%<load≤125%±5%)	
	30S, then transfer to bypass and alarm (125%±5%<load≤150%±5%)	
	300ms, then transfer to bypass and alarm (150%±5%<load)	
Normal mode/battery mode		
Automatically retransfer	YES	
<b>Environment</b>		
Work temperature	0°C~40°C	
Altitude	<1000m	
Work humidity	20%~95%	
Audible noise	≤65dB	
Storage temperature	-15°C~45°C	
<b>Standard</b>		
EMS	IEC61000-4	
EMI	EN55022	
Safety	GB4943-2001/IEC62040-1	
	GB-T4857-18	
Transportation	B-WR129-1(GB-T14715-93)	