

BNO3100 SERIES

3-1 PHASE / 10-15-20 KVA UNINTERRUPTIBLE POWER SUPPLY



GENERAL FEATURES

- High Frequency and True Double-Conversion
- High Frequency 3 Level Technology
- DSP (Digital Signal Processors) Technology
- Intelligent Active Input Power Factor Correction (PFC)
- Wide Input Voltage Range (110~300V)
- Output Power Factor = 1
- Cold Start (Start from Battery without Mains)
- Automatic Frequency Detection
- ECO Mode for High Energy Saving
- Output Voltage Selectable from LCD Screen
- Selectable Battery Turn-Off Voltage (EOD) from the LCD Screen
- Selectable Operating Mode from LCD Screen (3-1/1-1)
- 50Hz/60Hz Frequency Conversion Mode
- Self-test at startup
- Advanced Battery Management (ABM)
- Short Circuit and Overload Protection
- Automatic Battery Charging in Off Position, Load Sensitive Smart Fan Control
- Excellent Generator Compatibility
- Standard RS232 / USB Communication Port
- Standard Emergency Power Off Function (EPO)
- USB/SNMP Communication Port (*Optional*)
- With Additional Magazine Card; Addable Battery Unit (*Optional*)
- Manual Bypass (*Optional*)
- N+X Paralleling Feature (*Optional*)

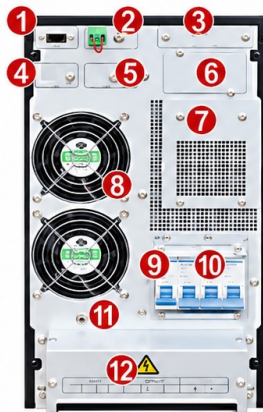
TECHNICAL FEATURES

MODEL	BNO3110	BNO3115	BNO3120
CAPACITY / POWER	10000 VA / 10000 W	15000 VA / 15000 W	20000 VA / 20000 W
INPUT			
Related Voltage	3/1 FAZ; 360 / 380 / 400 / 415 Vac. - 1/1 FAZ; 208 / 220 / 230 / 240 Vac. (Setting Available via LCD)		
Voltage Range	3/1; %50 Load (190-520) ± 5Vac., %100 Load (277-520) ± 5Vac.		
Frequency	40 ~ 70 Hz. ± % 0,5 (Auto Sensing)		
Input Power Factor	≥ 0,99		
Bypass Voltage Range	-% 40 ~ +% 15 - LCD (Setting Available via LCD)		
Total Harmonic Distortion (THDI)	≤ %5		
OUTPUT			
Related Voltage	208 (PF=0,9) / 220 / 230 / 240 Vac. (Setting Available via LCD)		
Voltage Regulation	± % 1		
Frequency	(Synchronized Mains) 50 / 60 Hz. ± 0,1 Hz.		
Wave Form / Output Power Factor	Pure Sine Wave/ cos@=1		
Crest Factor	3:1		
Harmonic Distortion	≤1% (Linear Load); ≤3% (Non-Linear Load)		
Transfer Time	AC Mode to Battery Mode: 0ms Inverter Mode to Bypass Mode: 0ms		
Overload Capacity	@ %105 - %110 Load 10 Dk. / @ %110-125 Load 1 Dk. / @ >%150 Load 30 sec.		
EFFICIENCY			
% 60 Load	≥ %95		
% 100 Load	≥ %94		
ECO MODE	≥ %98		
BATTERIES			
Battery Voltage	192 Vdc. / 240 Vdc. - 16 Yada 20 (Setting Available via LCD)		
Internal Batteries	16*12V. 7 - 9 Ah.	No batt. / Extra charger	No batt. / Extra charger
Charing Current (Standard Model)	1 A.	1-5 A. (10A. Ops.)	1-5 A. (10A. Ops.)
Charging Current (Long Model)	8 hours Recover to 90% Capacity		
ALARMS			
Utility Failure	Beep / 4 sec		
Low Battery	Two beeps / 1 sec		
Overload	Beep Twice / 1sec		
ENVIRONMENTAL / COMMUNICATION / STANDARTS			
Operation Temperature / Humidity	0 °C- 40 °C / 0 ~ 90% (non-condensing) / IP20		
Noise Level	≤ 55 Db (1 mt)		
Standard RS 232 / USB (Optional)	RS232 Standard / USB, RS 485, SNMP (Ops.)		
SNMP (Optional)	Power management from SNMP Manager and web browser		
STANDARTS	EN 62040-1: 2008 (LVD), EN 62040-2: 2006 (EMC)		
DIMENSION / WEIGHT			
Dimension (WxDxH)	191x495x711(S) / 191x495x711(L)	191x495x515 (H)	191x495x515 (H)
Packing Dimension (WxDxH)	310x685x941(S) / 318x617x475(L)	285x593x685 (H)	285x593x685 (H)
Net Weight (Kg)	64 (S) / 18 (H)	26,5 (H)	26,5 (H)
Gross Weight (Kg)	72 (S) / 20 (H)	28 (H)	28 (H)

* Our company has the right to change the model, visual and technical specifications of the products without prior notice.

BACK PANEL CONFIGURATION

- 1- RS 232
- 2- EPO
- 3- PARALLEL PORT (*Optional*)
- 4- USB (*Optional*)
- 5- TEMPRETURE SENSOR (*Optional*)
- 6- COMMUNICATION CONNECTION SLOT
- 7- MAINTENANCE BYPASS (*Optional*)
- 8- FANS
- 9- BYPASS SWITCH
- 10- ENTRY SWITCH
- 11- GROUNDING
- 12- CONNECTION TERMINALS



10 KVA (L)



15-20 KVA (L)



10 KVA (S)