

# AC/DC<sup>®</sup> UPS

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## UPSon BB Series Uninterruptible Power Supplies True Online 3 Phase / 1 Phase Input - 1 Phase Output



15 - 20 kVA

- \* Digital Power Factor Correction
- \* Three Level Inverter

### NEW TECHNOLOGY

- High and stable online efficiency ( up to 94% )
  - Three level inverter
- Short response time ( <2ms )
- Low input current THD ( <5% )
- Low output voltage THD ( <2% )
- High input and output performance
  - High input PF (  $\geq 0.99$  )

### RELIABLE & USER FRIENDLY

- Wide input voltage tolerances ( -%25, +%20 )
  - Short circuit, lightning and surge protection
    - Cold start
- Extended battery life with intelligent battery management
- Battery capacity, load percentage and ambient temperature display
  - 1 - 7A adjustable battery charger
- LCD interface and LED operation mode diagram
  - Remote emergency power off ( EPO )
    - Energy - saving sleep mode
    - 128 real time event log
    - Generator compatibility
      - Smart fan control
  - Automatic and manual battery test
  - Dry contacts and custom inputs
    - Internal battery
- Low investment and operation cost
  - Short return on investment time
  - Reduced weight / volume / footprint
- Remote monitoring panel and management software ( optional )
  - SNMP ( optional ) and RS232 communication

**TÜV**  
AUSTRIA  
HELLAS  
EN ISO 9001:2008

- EN 62040-1 (Safety), EN 62040-2 (EMC)
- CE, ISO 9001: 2008, ISO 14001, GOST

Your Positive Energy source ...

MODEL	UPSon BB Series		
Power	15 kVA		20 kVA
<b>INPUT</b>			
Voltage	220 / 230 / 240 VAC ; 1 ph + N or 380 / 400 / 415 VAC 3 ph + N		
Voltage tolerances	-%25, +%20 ( without downgrading )		
Frequency	50 / 60 Hz $\pm$ %10		
Power factor	$\geq$ 0,99		
THD <sub>v</sub>	< % 5		
<b>OUTPUT</b>			
Voltage	220 / 230 / 240 VAC ; 1 ph + N		
Voltage tolerances	$\pm$ %1 ( static load ) , dynamic load in accordance with VFI-SS-11		
Frequency	50 / 60 Hz		
Frequency tolerances	$\pm$ %0,1 ( self-synchronize ) , $\pm$ %1( mains-synchronize )		
Power factor	0,7 ( 0,8 optional )		
THD <sub>v</sub>	$\leq$ %2 ( linear load ) , $\leq$ %5 ( non-linear load )		
Crest factor	3:1		
<b>OVERLOAD CAPACITY</b>			
$\leq$ %110	60 min.		
$\leq$ %130	10 min.		
$\leq$ %150	1 min.		
$\leq$ %160	10 sec.		
<b>EFFICIENCY</b>			
Online	up to 94%		
Eko mode	up to 98%		
<b>GENERAL</b>			
Technology	True online-double conversion, Tree level inverter, Digital PFC		
Control	Dual-microprocessor, SPWM		
Communication	SNMP ( optional ) , RS232		
Remote monitoring	SNMPView, Remote monitoring panel ( optional )		
Dry contacts	Battery mode, Battery low, General fault		
Custom inputs	Generator, Remote EPO		
Cold start	Standard		
Maintenance bypass	Standard		
<b>ENVIRONMENT</b>			
Operating temperature	From 0°C up to + 40 °C ( from 20 °C to 25 °C for maximum battery life )		
Relative humidity	0% - 85% ( without condensation )		
Maximum altitude	$\leq$ 2000 m		
Noise level	< 55 dB ( A )		
<b>UPS CABINET</b>			
Dimensions ( W x D x H ) ( mm )	255 x 730 x 870		
Weight ( kg )	49		51
Degree of protection	IP20 ( Optional IP23 or IP54 )		
Color	RAL7012		
Internal battery quantity	30		
Internal battery capacity ( Ah )	7 - 9		
<b>BATTERY CABINET</b>			
Battery quantity	30	60	60
Battery quantity ( Ah )	7 - 9 - 12	7 - 9	12
<b>STANDARDS</b>			
Certificates	EN 62040-1 ( Safety ) , EN 62040-2 ( EMC )		
<b>UPS LIFETIME</b>			
5 YEARS			

\*\*\* AC/DC reserves the right to make any changes to data without prior notice.

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