

## TECHNICAL SPECIFICATION

### MODEL - BRAVO 1100VA

**PRODUCT FG CODE** SUD-BR-112-012-01

#### Product Specification Range of HUPS

Mains AC low cut UPS mode	175VAC ± 10VAC
Mains AC low cut recovery UPS mode	185VAC ± 10VAC
Mains AC high cut UPS mode	265VAC ± 10VAC
Mains AC high cut recovery UPS mode	255VAC ± 10VAC
Mains AC low cut WUPS mode	90VAC ± 10VAC
Mains AC low cut recovery WUPS mode	110VAC ± 10VAC
Mains AC high cut WUPS mode	295VAC ± 10VAC
Mains AC high cut recovery WUPS mode	285VAC ± 10VAC
Input Frequency Range	40Hz to 60Hz
Voltage Output in Mains Mode	Same as input
Frequency Output in Mains Mode	Same as input

#### BATTERY

Battery Type	LA / Tubular / SMF
DC input voltage	12V
Battery Quantity 12V 100Ah to 220Ah	1
Bulk absorption Voltage	14.8V
Float charging voltage	13.7V±0.2V
Boost charging voltage for LA Battery	14.0V±0.2V
Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)
Charging Current 100Ah-135Ah Setting (Input range 135VAC to 295VAC)	12A ± 2A
Charging Current 150Ah-220Ah Setting (Input range 135VAC to 295VAC)	15A ± 2A

#### BACKUP MODE

Output voltage	220VAC±10%
Output frequency	50Hz ± 0.2 Hz
Output waveform	Pure Sine Wave ≤ 5% THD
No Load current	<1.8A
Capacity	1100VA
Discharging current @ full load	60A ± 2A
Low Battery Warning	10.8V±0.2V
Low Battery Cut	10.4V±0.2V
Change over time UPS mode	< 10msec
Change over time WUPS mode	< 25msec

#### PROTECTIONS

Overload in backup mode	Yes provided, system will give indication at 101% load
Short Circuit in Backup Mode	System will shutdown after 3 - retries in case of output short circuit
Short Circuit in Mains Mode	Mains Fuse will blown
Back feed	System will shutdown in case of back feed and there is no retry
Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down
Reverse Battery	DC fuse will blown

#### DISPLAY AND ALARMS

Buzzer	Audible beep for Overload, Short Circuit, Back feed, Low Battery, Over Temperature, Mains Fuse blown / MCB Trip
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#### SAFETY

HV Test Input to Earth	Leakage current <5mA when 1.5kV applied for 1 min
HV Test Output to Earth	Leakage current <5mA when 1.5kV applied for 1 min
IR Test Input to Earth	>5MΩ between @ 500VDC
IR Test Output to Earth	>5MΩ between @ 500VDC
Earth Leakage current in Mains mode	< 2.5mA
Earth Leakage current in Backup mode	< 2.5mA

#### ENVIRONMENT

Operating Temperature	0°C to 50°C
Storage Temperature	0°C to 50°C
Operating Relative Humidity	90% Non-Condensing

#### WEIGHT AND DIMENSIONS

Dimensions in mm (LxWxH)	355x355x190
Weight (Kg)	9.5