

PROTON-S PRODUCT SPECIFICATION (1500VA/12V Home UPS)



MAINS MODE

1	Mains AC low cut UPS mode	175VAC±10VAC
2	Mains AC low cut recovery UPS mode	185VAC±10VAC
3	Mains AC high cut UPS mode	265VAC±10VAC
4	Mains AC high cut recovery UPS mode	255VAC±10VAC
5	Mains AC low cut WUPS mode	90VAC±10VAC
6	Mains AC low cut recovery WUPS mode	110VAC±10VAC
7	Mains AC high cut WUPS mode	295VAC±10VAC
8	Mains AC high cut recovery WUPS mode	285VAC±10VAC
9	Input frequency range	48HZ to 52HZ
10	Voltage output in Mains mode	SAME AS INPUT
11	Charging current @ 100AH-135AH setting	20A±1A
12	Charging current @ 150AH-200AH setting	25A±1A
13	Frequency output in Mains mode	SAME AS INPUT

BATTERY

1	Battery type	LA/TUB/SMF
2	DC input voltage	12V
3	Battery quantity	1
4	Float charging voltage	13.7V±0.2V
5	Boost charging voltage for LA battery	14.0V±0.2V
6	Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V
7	Battery deep Discharge Recovery	Independent charger to recover Deep discharge battery

BACKUP MODE

1	Output voltage	220V+5%-10%(Untill battery low alarm)
2	Output frequency	50Hz ± 0.2Hz
3	Output waveform	Pure Sine Wave
4	No load current	1.3A±0.2A
5	Capacity resistive bulb load	1040watt
6	Discharging current @ full load	85A±2Amp.
7	Low battery warning	10.8V±0.2V
8	Low battery cut	10.6V±0.2V
9	Change over time UPS mode	<10msec
10	Change over time WUPS mode	<25msec
11	Output voltage at full load	≥200VAC

PROTECTION

1	Overload in backup mode	≤100% load Continuously run
2	Short circuit in Backup mode	System will shutdown after 3 retries
3	Short circuit in Mains mode	AC MCB will trip
4	Reverse Battery	DC fuse will blown

SAFETY

1	HV test input to Earth	Leakage current <5mawhen 1.5kv applied for 1 min
2	HV test Output to earth	Leakage current <5mawhen 1.5kv applied for 1 min
3	IR test input to earth	>5MΩ between @500VDC
4	IR test output to Earth	>5MΩ between @500VDC
5	Earth leakage current in Mains mode	<2.5mA
6	Earth leakage current in Backup mode	<2.5mA
7	Operating temprature	0° to 50°C