

Afriipower

Inverters/Home UPS



900 VA/12V



1700 VA/ 24V



3500 KVA/48V



5KVA/48V - 7.5KVA/96-10KVA/120V

Product Specification Range of HUPS

Model Name	AP 900	AP 1100	AP 1700	AP 2000	AP 2500	AP 3500	AP 5000	AP 6000	AP 7500	AP 10000
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Manins Input mode

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	24V	36V	48V	48V	96V	120V			
Battery Quantity 12V 100Ah to 220Ah	1	2	3	4	4	8	10			
Float charging voltage	13.7V±0.2V	27.4V±0.4V	41.1V±0.6V	54.8V±0.8V		109.6V±2.0V	137V±2.0V			
Boost charging voltage for LA Battery	14.0V±0.2V	28.0V±0.4V	42.0V±0.6V	56.0V±0.8V		112V±2.0V	140V±2.0V			
Boost charging voltage forTubular and SMF Battery	14.5V±0.2V	29.0V±0.4V	43.5V±0.6V	58.0V±0.8V		116V±2.0V	145V±2.0V			
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)									
Battery High Cut	15.5V±0.2V	31.0±0.4V	46.5V±0.6V	62.0V±0.8V		124V±2.0V	155V±2.0V			
Charging Current 100Ah-135Ah Settting (Input range 135VAC to 295VAC)	12A ± 1A									
Charging Current 150Ah-220Ah Settting (Input range 135VAC to 295VAC)	15A ± 1A									
Charging Current (Input range 90VAC to 135VAC)	5A-12A									

Backup Mode

Output voltage	220VAC +5% -10% (untill battery low alarm)									
Output frequency	50Hz ± 0.2 Hz									
Output waveform	Pure Sine Wave ≤ 5% THD									
No Load current	≤ 4% of rated capacity									
Capacity	900VA	1100VA	1700VA	2000VA	2500VA	3500VA	5000VA	5000VA	7500VA	10kVA
Capacity Resistive Bulb Load	630W	770W	1190W	1400W	2000W	2800W	3600W	3800W	6000W	8000W
Discharging current @ full load	50A ± 2A	60A ± 2A	50A ± 2A	60A ± 2A	50A ± 2A	50A ± 2A	70A ± 2A	45A ± 2A	60A ± 2A	60A ± 2A
Low Battery Warning	11V±0.2V	22V±0.4V	33V±0.6V	44V±0.8V		88V±2.0V	110V±2.0V			
Low Battery Cut	10.8V±0.2V	21.6V±0.4V	32.4V±0.6V	43.2V±0.8V		86.4V±2.0V	108V±2.0V			
Change over time UPS mode	< 10msec									



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Change over time WUPS mode	< 25msec									
Crest Factor	1 : 5									
Peak Efficiency	82%	82%	85%	85%	90%	90%	90%	90%	92%	92%
Protections										
Overload in backup mode	≤ 100% Load Continuously run									
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 belown									
Backfeed	System will shutdown in case of backfeed and there is no retry									
Over tempature	Yes provided, if heatsink tempature goes above 100°C System will shut down									
Revrse Battery	DC fuse will belown					Battery MCB will trip				
Phase to Phase protection in mains mode	Yes provided by electronic									
Display and Alarms										
LCD Initial Display	Welcome, AFRIPOWER , System Capacity, Charging Till 90VAC and Deep Discharge Battery,									
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS OFF,									
LCD Fault / Protection Status Display	Mains Fuse Belown / MCB Trip, Short Circuit, Overload, Battery Low, High Tempature, Backfeed									
Buzzer	Audible beep for Overload, Short Circuit, Backfeed, Low Battery, Over Tempature, Mains Fuse belown / MCB Trip									
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 Dimentions										
Dimentions in mm	270x190x125	270x190x125	340x230x260	340x230x260	350x230x310	350x230x310	530x360x585	530x360x585	550x410x650	550x410x650
Weight	9.35kg	9.5kg	15.9kg	18.5kg	21.4kg	26.3kg	43kg	43kg	73kg	78kg
Prepared By						Approved By				