

Internal Series UPS 400VA (240W)

General Features:

- Adjustable voltage-transfer points, & charging voltage.
- Audible alarm
- Automatic restart of loads after UPS shutdown.
- Cold-start capable.
- Generator compatible.
- Smart battery management.
- Support DB9 (standard), optional for RS232 & USB interface
- Intelligent double stages charging control



□ Output

	115V Models	230V Models		
Power Levels	280VA, 170W			
(at nominal inputs)	400VA, 240W			
Output Voltage	100V/110V/115V/120V	200V/220V/230V/240V Selectable		
	Selectable			
Voltage Waveform	Simulated Sine wave			
Output Frequency	Auto Select for 50/60Hz			
(sync to mains)	45Hz ~ 55Hz for 50Hz nominal			
	56Hz ~ 65Hz for 60Hz nominal			
Regulation (Battery mode)	±5% of selected output voltage. (adjustable by using the setting software)			
Transfer time	6mS typical			
Over current	Over load alarm level 100% ~ 120%. (adjustable by using the setting software)			
protection	Over load shutdown level 120% ~ 190%. (adjustable by using the setting software)			
□ Input				

	115V Models	230V Models
Nominal Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Input Frequency	45Hz ~ 65Hz, 50/60Hz auto-sensing	
Efficiency	98% (Normal mode)	
Noise Filtering	Full time EMI/RFI filtering	
Over current	AC fuse	
protection		

Voltage Range	-15% ~ +14% for selected nominal voltage.		
	(Adjustable by using the setting software)		
Surge Protection	108 Joules	220 Joules	
■ Battery			
Battery type	280VA, 170W: Nickel metal hydride battery 13.2V/3500mAh		
	400VA, 240W : 1. Maintenance –free sealed, valve-regulated, Lead-Acid 6V/3Ah * 2		
	2. Nickel metal hydr	ide battery 18V/3500mAh	
Typical backup	Lead-Acid battery : 7 minutes		
time at half-load	Nickel metal hydride battery: 21 minutes		
Typical backup	Load Asid battony 2 minutes		
time at 80% of full	Lead-Acid battery : 3 minutes Nickel metal hydride battery : 11 minutes		
load	Hickorn	netarnyunde battery . 11 minutes	
Charging method	Smart pulse charging with two ch	narging modes.	
	Quick charging when battery is not fully charged, trickle charging when battery is 90%		
	fully charged.		
Charging time	Lead-Acid battery: Less than 8 hours to 90% at normal line and normal temperature.		
	Nickel metal hydride battery: 12 hours typical		
Averaged charging	Lead-Acid battery: 0.3 A		
current	Nickel metal hydride battery: 0.6A		
Averaged charging	Quick charging made: 14\/ may	imum	
voltage for	Quick charging mode: 14V maximum. Trickle charging mode: 13.2V ~13.9V adjustable by using the setting software.		
lead-acid battery	Thickie charging mode . 13.2V	13.3V adjustable by using the setting software.	
Protection	Over current protection.		
	Over charging voltage protection.		
	Thermo protection. (CPU control)		
Monitoring	Smart monitoring for failed battery or battery open circuit, real time detection and		
	warning.		
□ Communicat	ions & Management		
Standard Interface	DUDS and LIDSile	on 2000 compatible. Optional for LISP	
port	KUPS and UPSIIC	on2000 compatible; Optional for USB.	
Control panel	LED		
Audible alarm	On battery alarm: Low battery alarm, Over load alarm, Short-circuit alarm, Thermal		
	alarm		
Green mode			
function	1% to 14% of full load (adjustable by using the setting software)		
(Auto-shutdown	The default setting is 7%(20W typical)		
during blackout)			



□ Environmental and Safety		
Operating Temperature	Up to 1500 meters: 0°C to 40°C (32°F to 104°F)	
Transit/storage Temperature	-15°C to 55°C (5°F to 131°F)	
Relative Humidity	5 - 95% non condensing	
Operating Altitude	0 ~ 3000 meters	
Audible noise at 1 M from surface of unit	≦35 dBA	
Safety Markings	CE	
EMC	Class B, EN50091-2, FCC part15 IEC1000-2-2	
Quality control standard	ISO9001	
□ Physical		
Dimension W×D×H (cm)	280VA: 210 x 144 x 40 (mm) 400VA: 242 x 144 x 40 (mm)	
Net Weight	280VA: 2.7 / 3.0 (kgs) 400VA: 3.5 / 4.0 (kgs)	
Packing	Color box for each unit, 5 pcs in one export carton, and 120~140 units per pallet.	