8.2 Extra Smart Long-Run Series (Tower) 1000VA~5000VA

General Features:

- Smart backup time estimation for any kind of battery
- Adjustable voltage sensitivity, voltage-transfer points, & charging voltage
- Generator compatible
- Automatic restart of load after UPS shutdown
- Smart AVR function (Two buck / boost modes)
- Cold-start capable
- Audible alarm
- Hot-swappable batteries
- Network manageable (SNMP optional)
- Full function of LCD display (LED display optional)
- Smart battery management
- Intelligent double stages of charging control, Wet battery compatible
- Thermal control cooling fan





Output

	115V Models	230V Models	
Power Levels (rated at nominal inputs)	12Vdc models:1000VA/ 600W; 1500VA/ 900W 24Vdc~48Vdc models:1100VA/ 660W; 2200VA/ 1320W; 3000VA/ 1800W ;		
	5000VA/3200W (48Vdc; 230V models)		
Output Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable	
Voltage Waveform	Sine wave		
Crest Factor	3 : 1		
Output Frequency (Synchronized to Mains)	Auto Select for 50/60Hz 47Hz ~ 55Hz for 50Hz nominal; 56Hz ~ 65Hz for 60Hz nominal		
Regulation (Nominal)	$\pm 5\%$ typical of nominal voltage (optional at $\pm 10\%$ AVR for wide I/P up to $\pm 35\%)$		
Regulation (Battery mode)	±3% of selected output voltage (adjustable with the remote set-up software)		
Transfer time	Blackout 3ms typical; Brownout 1ms typical;		
	Battery mode to Normal mode : 1ms typical		
Over current protection	Over load alarm level 100% ~ 120%, Over load shutdown level 120% ~ 190%		
	(Adjustable by using the remote set-up software)		
🖃 Input			
	115V Models	230V Models	

Nominal Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Input Frequency	47Hz ~ 65Hz, 50/6	60Hz auto-sensing
Efficiency	97% (Normal mode)	
Noise Filtering	Full time EMI/RFI filtering	
Over current protection	1000VA ~ 1500VA : by AC fuse 2200VA / 3000VA : by re-settable over current protector	1000VA ~ 2200VA : by AC fuse 3000VA / 5000VA : by re-settable over current protector
Voltage Range	-20% ~ +24% for selected nominal voltage. -29% ~ +33% adjustable by using the remote set-up software	
AVR Range (2 Bucks, 2 Boosts)	Enhanced Buck: +15% of selected nominal voltage Buck mode: +5% of selected nominal voltage Boost mode: -5% of selected nominal voltage Enhanced Boost: -12.5% of selected nominal voltage	
Surge Protection	1000VA ~ 1500VA:216 Joules 2200VA / 3000VA:324 Joules	1000VA ~ 1500VA:220 Joules 2200VA:440 Joules 3000VA / 5000VA:660 Joules
∃ Battery		
Battery type	Lead-Acid 25Ah ~ 250Ah	
Voltage	1000VA/ 1500VA:12Vdc 1100VA:24Vdc (48Vdc); 2200VA:48Vdc (24V/ 36Vdc); 3000VA:48Vdc (36Vdc) 5000VA:48Vdc	
Typical backup time	No Limit	
Charging method	Smart pulse charging with two charging modes : Quick charging when battery is not fully charged, trickle charging when battery is 90% fully charged.	
Charging current	11A at normal line and normal temperature (Average) 20A/28A for 12Vdc models 1000VA/1500VA (special design) 30A for 5000VA/48Vdc model	
Average charging voltage for each battery	Quick charging mode : 14V maximum. Trickle charging mode : 13.2V ~ 13.9V adjustable with the set-up software.	
Protection	Over current protection & Over charging voltage protection (SCR control) Thermal protection (CPU control) : When temperature inside UPS is over 45°C, charger will stop charging for 2.5 minutes followed by an 1.5 minutes charging. The cycle will be repeated until the temperature is lower than 44°C.	
Monitoring	Smart monitoring & warning for failed battery or open-circuit battery. Auto-detection each time when power on or every 6 days.	
☐ Communications	& Management	
Standard Interface port	UPSilon2000 compatible. 1000VA (12Vdc):RS232 / 1100VA ~ 5000VA:RS232 + USB	
Optional Interface part	RJ45 (Surge protection), DB9, SNMP	
Control panel	LCD or LED Selectable	

Audible alarm	Alarm on battery : Low battery & Battery over voltage Alarm on abnormal operation : Over load, Short-circuit, & Over heat	
EBT (Estimation of Backup Time) system	Support for LCD display	
Green mode function (Auto-shutdown during blackout)	1% to 14% of full load (adjustable by using the remote set-up software). The default setting is OFF.	
Cooling fan control	Auto on / off, controlled by temperature & operation mode	
🖃 Environmental a	nd Safety	
Operating Temperature	Up to 1500 meters : 0°C to 40°C (32°F to 104°F)	
Transit/storage Temp.	-15°C to 55°C (5°F to 131°F)	
Relative Humidity	5 - 95% non condensing	
Operating Altitude	0 ~ 3000 meters	
Audible noise at 1M from surface of unit	≤50 dBA	
Isolation	3KVac for 1 minute between battery and AC side	
Quality control system	ISO 9001	
Physical		
Dimensions: (D×H×W) Unit / Shipping	1000VA : 12 x 25 x 37 (cm) / 22 x 31 x 47 (cm) (Wall-mount type) 1100VA ~ 3000VA : 45 x 20 x 18 (cm) / 54 x 33 x 30 (cm) 5000VA : 51 x 20 x 18 (cm) / 61 x 33 x 30 (cm)	
Weight: Net / Gross (kg)	12Vdc battery voltage:1000VA:10 / 11 (kg); 1500VA:14 / 15 (kg) 24Vdc ~ 72Vdc battery voltage:1100VA:15 / 16 (kg); 2200VA:19 / 20 (kg); 3000VA:23 / 24 (kg); 5000VA:40 / 42 (kg)	
Packing	Export carton for each unit, 16 - 30 units per pallet	