## Extra Smart Cable TV UPS (Long-run, CS-L series) 600VA~3000VA



## **General Features:**

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





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Output		
Power Levels crated at nominal	inputs 600VA / 420W; 7 1500VA / 1050W; 2000VA /	
Output Voltage	60Vac or 90Vac	
Voltage Waveform	Pure 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 (Battery mode)	±3% of selected output voltage (adjustable by using 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	200V / 220V / 230V / 240V
Input Frequency	47Hz ~ 65Hz, 50/60	OHz auto-sensing.
Efficiency	90% typically (Normal mode)	
Noise Filtering	Full time EMI/RFI filtering	
	600VA: by AC fuse	_600VA~2000VA: AC fuse
Over current protection	1200VA~3000VA:	3000VA:
	By re-settable over current protector	By re-settable over current protector
Voltage Range	±20% for selected	
Surge Protection	600VA~1500VA: 216 Joules 2000VA~3000VA~324 Joules	600VA: 220 Joules 1200VA~3000VA: 440 Joules
Battery	的现在分词 经收益 经收益 医甲状腺素 医甲状腺素 医皮肤	2012年在11日本大学中的基本企业的
Battery type	Lead-Acid ; 25Ah~250Ah.	
Voltage	600VA~2000VA: 48Vdc (optional 24Vdc, 36Vdc) 3000VA: 48Vdc	
Typical backup time	No Limit (depending on battery)	
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	9A at normal line & normal temperature (Average)	
Averaged charging voltage for each battery	Quick charging mode: 14V maximum.  Trickle charging mode: 13.2V ~ 13.9V adjustable by using the remote set-up softwa	
Protection	Protection for over current & over charging voltage (SCR control)	
	Thermal protection (CPU control)	
	When temperature inside UPS is over 45°C, charger will stop charging for 2.5 minute	
	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 & Manag		in power on or every o days.
Standard Interface port	RS232, UPSilon2000 compatible.	
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		
Cooling fan control	Auto on / off, controlled by temperature & operation mode.	
<b>Environmental and Safety</b>		
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 1M		
from surface of unit	≦50 dBA	
Safety Markings	CE	
EMC	Class A, EN50091-2, FCC part15, IEC1000-2-2.	
Isolation	1.5KVac for 1 minute between battery and 60Vac O/P 1.5KVac for 1 minute between AC I/P and 60Vac O/P	
Quality control system	ISO S	9001
Physical		
Dimensions: D x H x W (cm)	600VA: 38 x 20 x 18 (c	m) / 48 x 33 x 30 (cm)
Unit / Shipping	1200VA-2000VA: 45 x 20 x 18 (cm) / 54 x 33 x 30 (cm) 3000VA: 51 x 20 x 18 (cm) / 61 x 33 x 30 (cm)	
Weight: Net / Gross (kg)	600VA: 15 / 16 (kg) / 1200VA: 19 / 20 (kg) 1500VA: 20 / 21 (kg) / 2000VA: 24 / 25 (kg)	
	3000VA: 33	3 / 35 (kg)
	Export carton for each unit, 16 - 30 units per pallet.	



Uninterruptible Power Supply

