

**Extra Smart Cable TV UPS (Long-run, UBT- LP 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

**Output**

Power Levels crated at nominal inputs	600VA / 420W : 1200VA / 840W 1500VA / 1050W : 2000VA / 1400W 3000VA / 2100W
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 (Batt. mode) (Normal mode)	±3% of rated output voltage (adjustable by using the remote set-up software) ±8% of rated output voltage when in brownout (AVR in operation)
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, 50/60Hz auto-sensing	
Efficiency	90% typically (Normal mode)	
Noise Filtering	Full time EMI/RFI filtering	
Over current protection	600VA : by AC fuse 1200VA~3000VA : By re-settable over current protector	600VA~2000VA : AC fuse 3000VA : By re-settable over current protector
Voltage Range	±20% for selected nominal voltage.	
Surge Protection	600VA~1700VA : 216 Joules 2000VA~3000VA : 324 Joules	600VA : 220 Joules 1200VA~3000VA : 440 Joules

**Battery**

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 software.
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 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	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) system	Support for LCD display
Cooling fan control	Auto on / off, controlled by temperature & operation mode

**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 1M from surface of unit	≤ 50 dBA
Safety Markings	CE
EMC	Class A, EN50091-2, FCC part15, IEC61000-2-2
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 9001

**Physical**

Dimensions:	600VA : 38 x 20 x 18 (cm) / 48 x 33 x 30 (cm)
Unit / Shipping	1200VA~2000VA : 45 x 20 x 18 (cm) / 54 x 33 x 30 (cm)
DxHxW (cm)	3000VA : 51 x 20 x 18 (cm) / 61 x 33 x 30 (cm)
Weight:	600VA : 15 / 16 (kg) / 1200VA : 19 / 20 (kg)
Net / Gross (kg)	1500VA : 20 / 21 (kg) / 2000VA : 24 / 25 (kg) 3000VA : 33 / 35 (kg)
Packing	Export carton for each unit, 16 - 30 units per pallet