

## ULTRA SINE

## MICROPROCESSOR CONTROL and PURE SINE WAVE UPS

- High reliability
- High input power factor
- Power Watcher: full time load power monitoring and warning.
- Battery Watcher: automatic battery test and alert when battery level is low or need to replace the battery.
- Ultra fast charge with 3 stage charging battery.
- Intelligent Battery Management (IBM)
- Advanced Load Outlet Management (ALOM)
- Buck/Double boost stabilizer
- Surge protection for telephone and LAN Line
- Extend backup time
- Perfect Ultra Sine display
- Surge, spike, blackout, brownout, overload and short circuit protection
- Schedule Shutdown, Restart and Self-Testing
- Easy-Mon X Software
- SNMP/HTTP monitor capability (option)



www.leonics.com  
**ISO 9001  
14001**  
www.leonics.co.th



## LINE INTERACTIVE UPS WITH STABILIZER

LEONICS UPS with range from 350 VA to 250 kVA is also widely used to protect electronic equipment such as computer networks, PABX, telecommunications, medical and scientific equipment, etc. from blackout, brownout, surge, spike, noise and frequency drift.



Accredited by Member of  
the Pacific Accreditation  
Cooperation (PAC) and  
International Accreditation  
Forum Inc. (IAF)  
Multilateral Recognition  
Arrangement for Quality  
Management Systems



# LEONICS® ULTRA SINE

Microprocessor Control and Pure Sine Wave UPS



TIS 1291-2545



LEONICS CO.,LTD A5043 ISO 9001



ISO 14001  
EMS 01007/045

SPECIFICATIONS	USP 600 CON
Capacity (Pf = 0.8)	600 VA (480 W)

## INPUT

Input voltage for utility operation	- 20% to + 15% of nominal input voltage
Nominal input	220 Vac single phase, 50 or 60 Hz $\pm$ 6% (auto sensing)

## OUTPUT

Voltage (on battery)	Pure sine wave at nominal input voltage $\pm$ 1%
Frequency (on battery)	50 / 60 Hz $\pm$ 0.1% (pure sine wave THD < 3%)
Voltage (AVR)	Nominal $\pm$ 5%
Automatic voltage stabilizer	Buck / Double Boost
Transfer time	0.5 to 4 msec.
Overload protection	On battery - internal current limiting, On line circuit breaker

## SURGE PROTECTION AND FILTERING

Surge energy rating, peak current capability	170 Joules, 8 kA x 3 ( L-N, L-G, N-G )
Normal mode clamping response time	Fast Response <25 ns
Normal mode noise suppression	Full time EMI / RFI filtering
Surge energy rating for telephone line	28.5 Joules, 3.6 kA (RJ45 PIN 4, 5)
Surge protection for LAN line (10 Base T)	Yes (RJ45 PIN 1, 2, 3, 6)

## ENVIRONMENTAL

Ambient operation	0 - 95% humidity non-condensing, 0 to + 45 °C (32 to 113 °F)
Ambient storage	0 - 95% humidity non-condensing, -10 to + 45 °C (14 to 113 °F)
Audible noise	< 40 dBA (1 metre)

## PHYSICAL

Input connector type	IEC 320 C 14
Number of output outlet	6
Maximum dimensions (WxHxD)	17.0 x 25.0 x 50.0 cm.
Net weight (Approx.)	13.0 kg.
Shipping weight (Approx.)	15.0 kg.

## USER REPLACEABLE BATTERIES

Rated power	24 Vdc, Ah rating depend on customer
Charging current	10 A or depend on battery Ah rating

## ADVANCE WARNING DIAGNOSTICS

Front panel LED's	On-line, Replace battery, Fault, Input voltage level, Battery level, Load level, UPS overload, Main & Intelligent channel fault, Frequency fault, High / Over temperature
Audible alarms	On battery, low battery, UPS overload, replace battery, high /over temperature

## COMMUNICATIONS INTERFACE

DB-9 connector	Serial interface port can be connected to PC, workstations or servers for automatic unattended shutdown Easy-Mon X may be required
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## CONFORMANCE

Design Regulation	EN 50091-1, EN 50091-2, EN 55022(B), EN 61000-4-2, (4), (6), IP21
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Continuous product development is our commitment. In that manner, the above specification may be changed without prior notice.

Easy-Mon X Software is designed to use with

- Microsoft Windows 95/98/ME
- Microsoft Windows 2000/NT/XP
- Linux, Solaris, SUN, HP, COMPAQ

Authorized dealer :

Easy-Mon X Software capable to work with above OS and OS of the above computer manufacturing. Please check details of OS version at [www.leonics.com](http://www.leonics.com)

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