SPECIFICATIONS

INPUT FREQUENCY 50/60 Hz

INPUT VOLTAGE

75 - 150VAC, 120V models

RANGE

150 - 280VAC, "E"& "EC" models

OUTPUT VOLTAGE 105 - 130VAC, 120V models

RANGE

200 - 250VAC, "E"& "EC" models

EFFICIENCY

Higher than 97% under full load

TRANSFER TIME

Less than 2ms from one mode to next.

RESPONSE TIME

Within 2 cycles of new input AC, before

switching over to a new mode.

HYSTERESIS

Minimum of 6V, to prevent unnecessary switchovers caused by momentary sags on AC line, commonly induced by copiers and laser printers. This will improve reliability of both

line conditioner and equipment.

SPIKE & SURGE **PROTECTION**

Extremely fast solid state surge suppressor, responding within nanoseconds to shunt upto 26000 amps of surge current (or upto 280

Joules of energy).

NOISE FILTERING

Custom EMI/RFI noise filter provides upto 45 dB of common mode attenuation and 35 dB of differential mode attenuation at 10MHz.

TEMPERATURE

OPERATING: -20 °C - +50 °C STORAGE: -40 °C - +60 °C

HUMIDITY

RANGE

0 - 95% relative humidity, non-condensing.

SIZE

WIDTH: 6" (152 mm) HEIGHT: 4" (102 mm) DEPTH: 8" (203 mm)

WEIGHT

SLC-600, 600E, 600EC: 8 lbs (3.6 kg) SLC-1200, 1200E, 1200EC: 11 lbs (5.0 kg)

SLC-1800, 1800E, 1800EC: 15 lbs (6.8 kg)

LIMITED WARRANTY

TSi Power warrants this product to be free from defects in materials and workmanship for two (2) years from the date of purchase from TSi Power or its authorized representatives. TSi Power will repair (or at its option, replace) any defective component(s) during this warranty period.

To make a request or claim for service under this limited warranty, the original purchaser must return the product, in the original shipping container or equivalent, to TSi Power or its authorized distributor, accompanied by a written receipt showing the date of purchase, dealer's name, and both the model name and serial number of the product.

Warranty does not cover transportation costs. Damage by misuse, accident or unauthorized tampering of the product is not covered by the warranty. NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED. TSI POWER IS NOT LIABLE FOR CONSEQUENTIAL DAMAGES. THIS WAR-RANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

LIMITATION OF LIABILITY

IN NO EVENT SHALL TSI POWER OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUP-TION, LOSS OF BUSINESS INFORMATION, OR OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OR INABILITY TO USE THIS TSI POWER PRODUCT, EVEN IF TSI POWER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

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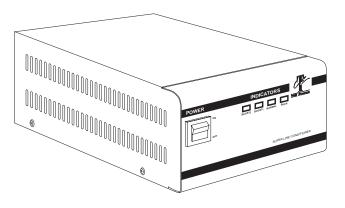
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TSi Power

Operating Manual

SLC-600/1200/1800

SLC-600E/1200E/1800E



Super Line Conditioner

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

THIS MANUAL CONTAINS IMPORTANT INSTRUCTIONS FOR YOUR SUPER LINE CONDITIONER THAT SHOULD BE FOLLOWED DURING INSTALLATION AND MAINTENANCE. PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE OPERATING YOUR SUPER LINE CONDITIONER.

CAUTION: The 3 wire power cord supplied with the unit provides earth ground for the unit's chassis to prevent electrical shock. Plug the unit into a 3 wire, commercial, grounded AC receptacle, with the grounding conductor connected to earth ground at the service equipment. Removal of the grounding pin from the plug or use of a 3 wire to 2 wire adaptor may result in a shock hazard.

CAUTION: Hazardous voltage inside. Do not remove cover. There are no user serviceable parts inside. All repairs should be performed by trained service personnel.

INTRODUCTION

Your TSi Power *Super Line Conditioner* (SLC) is designed to provide computer grade power even when the AC mains or generator voltage is extremely low or extremely high. There are four stages of boost, normal and buck (drop) operations, regulating the output of the SLC within 105 to 130VAC even when the input voltage varies from 75 to 150VAC. For 230V models, the output voltage is regulated within 200 to 250VAC even when the input voltage varies from 150 to 280VAC. Furthermore the SLC filters noise and arrests surges/spikes to to protect your sensitive equipment.

BEFORE INSTALLATION

Please unpack the SLC from the packing box and inspect the unit for shipping damage. If damage is found, notify the carrier and your dealer. Otherwise, save the packing box and material for later use. You must ship the unit in its original or equivalent packing material for any warranty work to be performed.

INSTALLATION INSTRUCTIONS

- 1. Make sure the unit is turned off. Place the SLC within 2 meters (6 feet) of a grounded (3-wire) electrical outlet.
- 2. IMPORTANT: Before plugging in the SLC into the electrical outlet, make sure that the utility voltage is appropriate for the specific SLC model. The proper power and voltage of your model are printed in the rear panel label. You can also check the power and voltage table printed in this manual.
- 3. Plug in the SLC into the power outlet. Next, plug in the equipment to be protected into the SLC's outlets. Make sure that the maximum power rating of the SLC is not exceeded.
- 4. Turn on the SLC with the power switch. One of the four indicator lights will turn on. Which one will turn on depends upon the condition of the utility voltage (see section below on indicator lights). Your equipment connected to the SLC are now ready to be turned on.

INDICATOR LIGHTS

The front panel indicator lamps display the status of the SLC in the following manner:



BOOST2: This light is on when the AC input voltage is extremely low, requiring a 2nd stage of boost in order to raise the voltage to normal levels.

BOOST1: This light is on when the AC input voltage is moderately low, requiring single boost stage in order to raise the

voltage to normal levels.

NORMAL: This light is on when the AC input voltage is normal and no boost or buck is required.

BUCK: This light is on when the AC input voltage is too high, and thus requires a buck stage to reduce the voltage to normal levels.

AC FUSE

In case of an overload, the input fuse will open, and none of the front indicator lights will be on even if the power switch is turned on and the SLC is plugged in. To replace the fuse, first unplug the SLC from the wall, remove the fuse from the rear panel, and replace with a fuse of the same type and rating (printed adjacent to the fuse cap).

HOW TO USE AN UPS WITH YOUR SLC

An *Uninterruptible Power Supply* (UPS) can provide AC power to your equipment during power outages or fluctuations. Your SLC, working together with an UPS, can increase the operating range of the UPS, minimize battery usage, and provide even greater protection to your equipment.

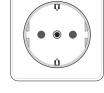
For an UPS to work with most effectively with a SLC, the SLC should be plugged into the wall, and the UPS should be plugged into one of the outlets of the SLC. CAUTION: Do not plug in the SLC into the output sockets of an UPS. Doing so could prevent the SLC from providing the maximum range of voltage regulation and filtering. You will also lose the benefit of using the SLC to reduce the need for the UPS to operate on battery.

POWER AND VOLTAGE

MODEL NUMBER	POWER (in Watts)	NOMINAL VOLTAGE	OUTPUT SOCKETS
SLC-600	600	120V, 50/60Hz	$4 \times NEMA-15R$
SLC-1200	1200	120V, 50/60Hz	$4 \times NEMA-15R$
SLC-1800	1800	120V, 50/60Hz	$4 \times NEMA-15R$
SLC-600E	600	230V, 50/60Hz	$4 \times IEC 320$
SLC-1200E	1200	230V, 50/60Hz	$4 \times IEC 320$
SLC-1800E	1800	230V, 50/60Hz	$4 \times IEC 320$
SLC-600EC	600	230V, 50/60Hz	$2 \times SCHUKO$
SLC-1200EC	1200	230V, 50/60Hz	$2 \times SCHUKO$
SLC-1800EC	1800	230V, 50/60Hz	$2 \times SCHUKO$

AC OUTPUT SOCKETS







NEMA-15R

SCHUKO

IEC 320