

Power Converter with Battery Backup

SDC45.5

45 WATTS

APPLICATIONS :

- * Control Systems
- * Computers
- * Electronic Equipment
- * Communication and Audio Equipment
- * Cash Register
- * Ticket Printer
- * Test, Measuring and other Instrumentation

FEATURES:

- * Wide Input Voltage Range
- * Over Voltage Shutdown
- * TTL-Signal "Input within Range"
- * "Foldback" Current Limit
- * Battery Backup
- * Dual Converter

DESCRIPTION:

The SDC45.5 is a very small and integrated UPS (Uninterruptable Power Supply), which is perfectly suited for control systems and similar applications. For Line applications an external Line Transformer is required.

Outputs:

AC_OK: TTL-Signal, High if Input Voltage is within the allowed range and +5V Output is present. Used for computer Shutdown in case of Line failure.

IN / OUT 12V Battery: Connection of Battery, which gets charged during normal operation from line. In case of Line failure, battery will supply the Power Converter 2.

Suggested Battery Type: Lead-Acid
12V / 7Ah

OUT +15V / 1A: This Output is not backed-up by the battery, in case of line failure. It is used for Display Lights or similar.

OUT +5V: Regulated +5V Output with 4A nom.

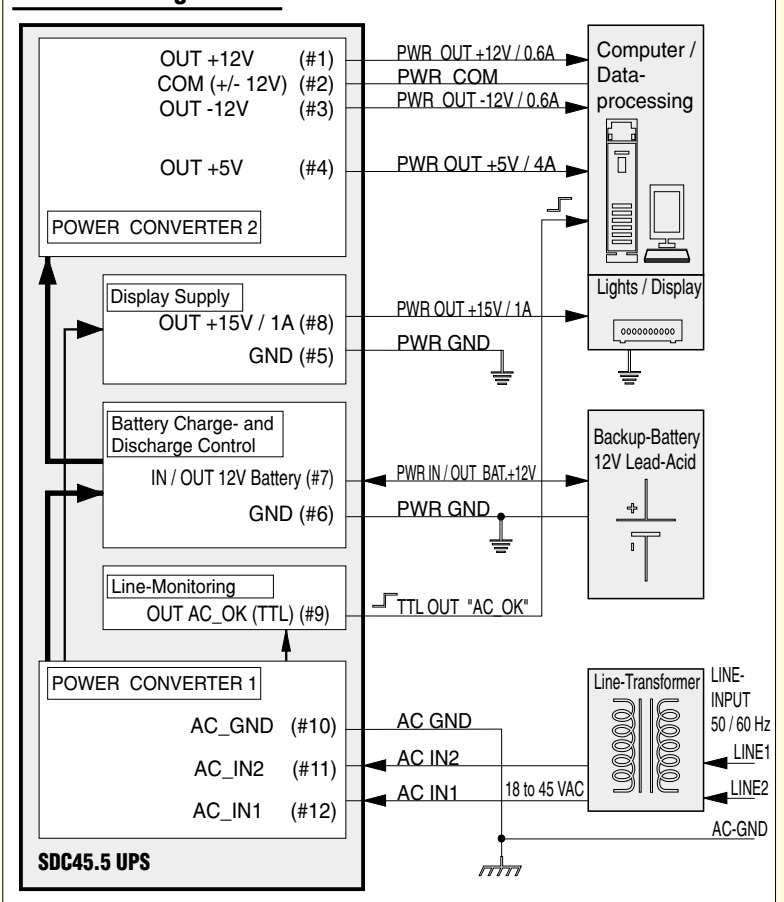
OUT +/-12V: Outputs with 0.6A each. These outputs are galvanically isolated from the +5V Output and are slave regulated with the +5V. COM and GND are isolated from each other, but can be connected externally.

Signal LEDs:

LED OUT_OK: ON, when +5V Output is present

LED BAT_OK: ON, when +12V are present at "IN/OUT 12 Battery" - In- / Output

Functional Diagram:



SDC45.5 UPS Uninterruptable Power Supply

Technical Data:

All Specifications are measured at 25°C

INPUT:

AC-Input (Pin#11, #12):

Frequency: 50 / 60 Hz

Min. Input Voltage: 15 to 18V

Working Range:
min.18V / nom.28V / max.40V

Over Voltage Turnoff: 46V to 48V

Battery (#7):

Battery is getting charged during normal Operation from Line. Charge Control is for a 12V Lead-Acid Battery. For normal Operation from Line, the unit can also operate without a battery connected.

Weight: 8.6oz / 245 grams

OUTPUT:

OUT +15V (Pin#8):

max. Output Current: 1A

Battery (#7):

In case of a line failure, The Output Converter continues to function from the connected Battery (12V Lead Acid)

OUT +5V (#4):

max. Output Current: 5A

OUT±12V (#1, #3):

Galvanically isolated from the 5V Output.
Output voltage depends on Load at 5V Output:
±8V to ±12V
max. output Current: 0.8A

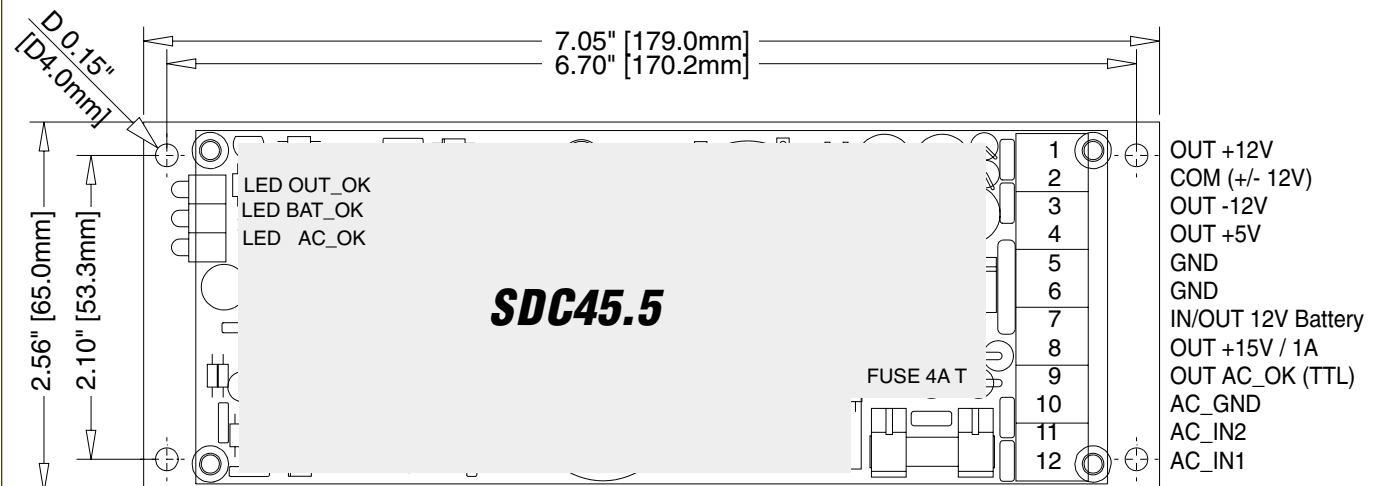
Monitoring Output (TTL) (#9):

HIGH: Input voltage is within the the specified range (min.19V / max.36V) and +5V Output is present.

LOW: Input Voltage is out of the specified range and / or voltage at +5V Output is to small.

Mechanical Dimensions & Connection Diagram:

Drawing Size: 75%



© SCHOCK POWER CORPORATION, 2000 "All rights reserved"