



Important product information, please read carefully!

230 V / 12 V power supplies for laboratory – and 2-way radio applications

The devices were marked by us with the **CE** symbol as a proof that the demands for protection are kept according to the regulations of the European **EMV Directive 2004/108/EG, the Low Voltage Directive 73/23/EEC and the R&TTE Directive 99/5/EC**. The power supplies correspond to the European EMC standards.

1. Intended purpose:

The 230V power supplies **SW 35, SW 57, SW 79, SW 102** for a stabilized output voltage of 13.8V DC are intended for radio transmitting applications and the use in the electronics laboratory. The devices are designed in their loading capacity for the typical load change intervals arising at the company radio, ham radio and CB radio, what corresponds to an average duty cycle of up to 50%.

These load cycles presuppose that on a time average of no more than 50% of the duty cycle is sent with full power and in the remaining time will be only received. The devices can be loaded with the indicated maximum amperage at a maximum loading time of 50% of the total time.

2. Conformity to standards and marking:

**EN 55022: 2006 + A1:2007, EN 50 024:1998 + A2:2003
(Limit class B)**

respectively for CB radios EN 301 489-13 V1.2.1 and EN 60 950-1:2006

for the use in populated and commercial areas, however they are not intended for the supply of general devices in the household, but exclusively for radio communication systems and experimentation superstructures in electronics laboratories. Regarding to the EUP Directive (eco standard), the devices have a power switch, which reduces the current consumption in the switched off condition to 0 Watts.



Please observe the European rules for recycling no more used or defective electronic devices. It is no more allowed to place electronic items into the household trash-Meanwhile collecting stations can be found in every community.

3. Load-carrying capacity, maximum amperage:

The data on the packing and the appliance stand for:

The first number, e.g. “3“

at the power supply SW 35 stands for 3 ampere loading capacity during longer periods at typical radio applications (e.g. over approx. 1 hour).

The indicated current can be taken continuously, without the voltage breaks down for more than 10% or a parasitic modulation occurs with commercial 2 way radio appliances. However regular cooling phases are recommended.

For example, our power supplies however are not intended for the continuous supply of 12 V **refrigerators, cooling bags, coffee makers or TV sets**. Our power supplies

are also not intended as battery chargers for car or other batteries and accumulators – thereto please buy special battery chargers with the appropriate characteristics.

The second number stands for:

Surge loading capacity. This is the absolute upper limit for the possible peak short-term loading capacity at which stabilization might stop, however there is still no defect in the power supply.

Example:

Power supply SW 35

maximum nominal loading capacity	3 ampere
maximum peak short-term loading capacity	5 ampere

Power supply SW 57

maximum nominal loading capacity	5 ampere
maximum peak short-term loading capacity	7 ampere

Power supply SW 79

maximum nominal loading capacity	7 ampere
maximum peak short-term loading capacity	9 ampere

Power supply SW 102

maximum nominal loading capacity	10 ampere
maximum peak short-term loading capacity	12 ampere

4. Fuse and safety advices:

The fuse of the power supply (back) must be replaced only with an identical type for the same shutdown characteristic (fast blowing). Before changing the fuse and/or before opening the appliance, the 230V the power plug of the power cable must be pulled out of the wall socket for safety reasons.

Please do not modify the power supply and if repairs are necessary only contact a specialist.

We do not assume any liability for damages, which results from failure to observe these advices or improper use, as well as for damages of downstream appliances. When using power supplies or voltage converters for other purposes than stated (e.g. at increased duty cycle), either a smaller current consumption has to be planned or a corresponding more powerful appliance with appropriate cooling must be used. In case of doubt ask a specialist.

© 2017 Alan Electronics GmbH, Daimlerstr. 1K, 63303 Dreieich, Germany
www.alan-electronics.de - www.albrecht-online.de

Service Hotline: +49 (0) 6103 9481 66
Service Download: www.service.alan-electronics.de
Service E-mail: service@alan-electronics.de
Service Address: Alan Electronics GmbH
Service
Daimlerstraße 1k
63303 Dreieich
Germany