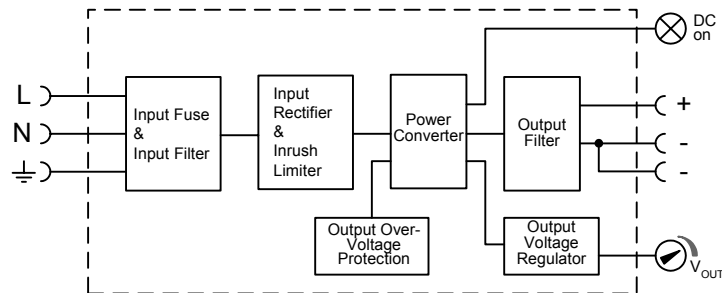


11. FUNCTIONAL DIAGRAM

Fig. 11-1 Functional diagram



12. RELIABILITY

These units are extremely reliable and use only the highest quality materials. The number of critical components such as electrolytic capacitors has been reduced.

		AC 100V	AC 120V	AC 230V	
Lifetime expectancy	min.	66 000h	70 000h	93 000h	40°C, 5V, 3A
	min.	> 15 years	> 15 years	> 15 years	40°C, 5V, 1.5A
	min.	> 15 years	> 15 years	> 15 years	25°C, 5V, 3A
MTBF SN 29500, IEC 61709		2 479 000h	2 838 000h	2 686 000h	40°C, 5V, 3A
		4 066 000h	4 654 000h	4 405 000h	25°C, 5V, 3A
MTBF MIL HDBK 217F		1 175 000h	1 251 000h	1 145 000h	40°C, 5V, 3A, Ground Benign GB40
		1 575 000h	1 676 000h	1 534 000h	25°C, 5V, 3A, Ground Benign GB25

The **Lifetime expectancy** shown in the table indicates the operating hours (service life) and is determined by the lifetime expectancy of the built-in electrolytic capacitors.

Lifetime expectancy is specified in operational hours. Lifetime expectancy is calculated according to the capacitor's manufacturer specification. The prediction model allows a calculation of up to 15 years from date of shipment.

MTBF stands for **Mean Time Between Failure**, which is calculated according to statistical device failures, and indicates reliability of a device. It is the statistical representation of the likelihood of a unit to fail and does not necessarily represent the life of a product.