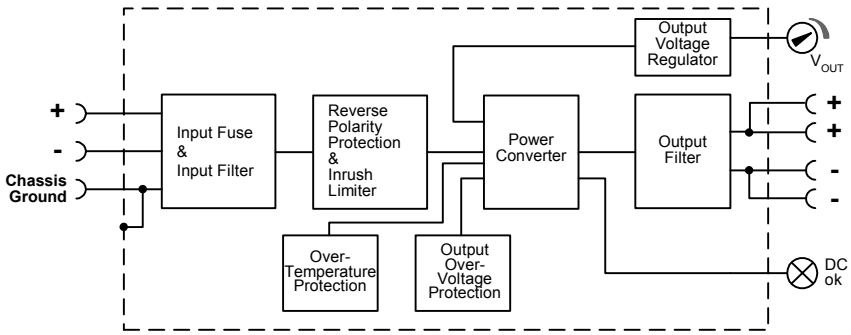
10. FUNCTIONAL DIAGRAM

Fig. 10-1 **Functional diagram**



11. RELIABILITY

		Input: 48Vdc	
Lifetime expectancy	min.	169 000h	40°C, 24V, 2.5A
	min.	64 000h	40°C, 24V, 5A
	min.	39 000h	40°C, 24V, 6A
	min.	181 000h	25°C, 24V, 5A
MTBF SN 29500, IEC 61709		951 000h	40°C, 24V, 5A
		1 560 000h	25°C, 24V, 5A
MTBF MIL HDBK 217F		559 000h	40°C, 24V, 5A, Ground Benign GB40
		749 000h	25°C, 24V, 5A, 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 **M**ean **T**ime **B**etween **F**ailure, 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.