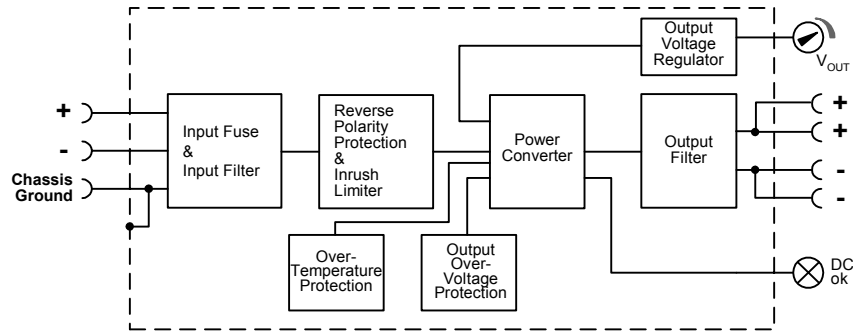


10. FUNCTIONAL DIAGRAM

Fig. 10-1 Functional diagram



11. RELIABILITY

Input: 24Vdc

Lifetime expectancy	min.	173 000h	40°C, 12V, 4A
	min.	63 000h	40°C, 12V, 8A
	min.	35 000h	40°C, 12V, 9.6A
	min.	179 000h	25°C, 12V, 8A
MTBF SN 29500, IEC 61709		1 161 000h	40°C, 12V, 8A
		1 904 000h	25°C, 12V, 8A
MTBF MIL HDBK 217F		610 000h	40°C, 12V, 8A, Ground Benign GB40
		817 000h	25°C, 12V, 8A, 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.