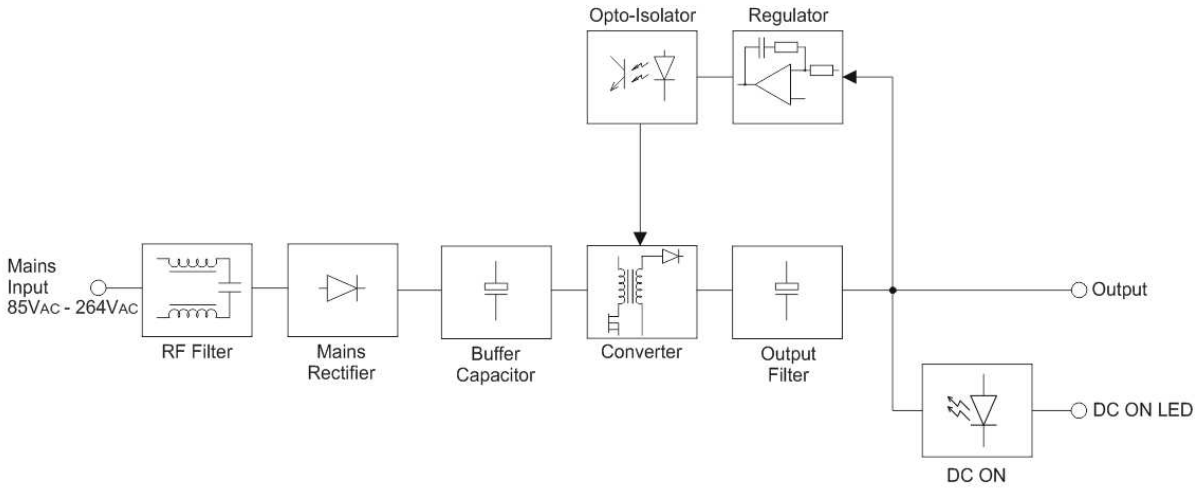
General Specifications (continued)

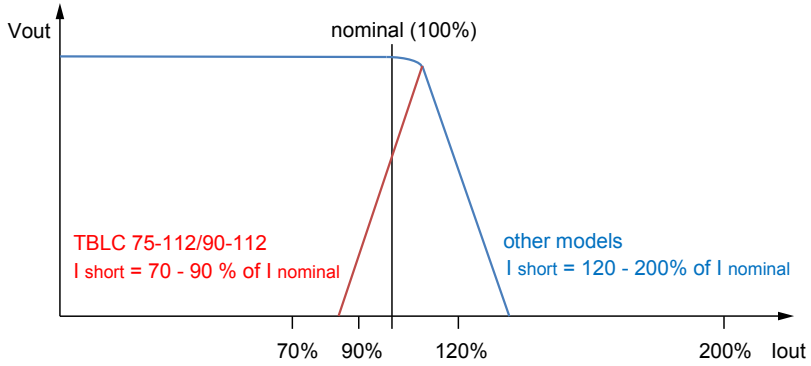
Safety standards	– Information technology equipment	IEC/EN 60950-1, UL 60950-1
	– Household applications	IEC/EN 60335-1
	– Safety of machinery	EN 60204
	– Safety for power electronic converter systems	IEC/EN 62477
	– Industrial control equipment	UL 508
	– Class II Power units	UL 1310
	– NEC class 2	UL 1310 (not TBLC 90-xxx and TBLC 75-112)
	– Electronic equipment for power installation	EN 50178
	– Safety of transformers	EN 61558-2-8, EN 61558-2-16
	– Certification documents	www.tracopower.com/overview/tblc
Electromagnetic compatibility (EMC), Emissions		EN 61000-6-3, EN 61204-3
	– Conducted RI suppression on input	EN 55032 class B
	– Conducted disturbance on output TBLC 50/75/90:	EN 55014 class B, CISPR 16-1-1
	– Radiated RI suppression	EN 55032 class B
	– Harmonic current emissions	IEC 61000-3-2 class A
Electromagnetic compatibility (EMC), Immunity		EN 61000-6-2, EN 61204-3
	– Electrostatic discharge (ESD)	IEC/EN 61000-4-2 4 kV/8 kV criteria B
	– Radiated RF field immunity	IEC/EN 61000-4-3 10 V/m criteria A
	– Electrical fast transient / burst immunity	IEC/EN 61000-4-4 2 kV criteria B
	– Surge immunity	IEC/EN 61000-4-5 1 kV/2 kV criteria B
	– Immunity to conducted RF disturbances	IEC/EN 61000-4-6 10 V criteria A
	– Power frequency field immunity	IEC/EN 61000-4-8 30 A/m criteria A
	– Mains voltage dips and interruptions	IEC/EN 61000-4-11 0% / 20 ms 40% / 200 ms 70% / 500 ms
Environment	– Vibration acc. IEC 60068-2-6	3 axis, 2 g sine sweep, 10 – 150 Hz, 90 min
	– Shock acc. IEC 60068-2-27	3 axis, 30 g half sine, 11 ms
Enclosure material		V2 rated plastic
Mounting	– DIN-rail mounting	for DIN-rails as per EN 50022 – 35×15/7.5 (snap-on with self-locking spring) (included)
Environmental compliance	– Reach	www.tracopower.com/products/reach-declaration.pdf
	– RoHS	RoHS directive 2011/65/EU
Connection		screw terminal with combi-type screw heads for wire size 0.5 – 2.5 mm^2

Function Specification

Block Diagram



Current Limit Characteristic



The load characteristic is designed to accomplish reliable start-up of heavy loads.
Note: All 6 Watt models (TBLC 06-xxx) implement a pulsing power characteristic when in overload or short circuit conditions.

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.