TRACO POWER

Industrial Power Supplies

• Low profile case, module depth only 55 mm

- Suitable for mounting in domestic installation panels
- Very high efficiency and low standby power → compliance to ECO-Standard
- High power density
- Low output ripples and spikes
- Suitable for household appliance and industrial applications
- For distributed power
- UL 1310 class II, NEC class 2 compliance
- UL 508 listed
- Universal input range 85 to 264 VAC
- Operating temperature range: -25°C to +70°C
- Adjustable output voltage
- Short circuit and overload protection
- DC-OK indicator LED





This new DIN-Rail mounting power supplies are designed for industrial and residential applications. They are lower cost than the existing TBL range, with similar electrical specifications. Additionally, they fully comply to the new standby power and efficiency requirements (ECO Standard). They are intended for connecting as class II devices, so the safety earth connection is not required. They are mountable in flat racks due to their small dimensions in depth. Their dimensions comply to the DIN 43880 standard.

Models				
Order Code	Output Power	Output Voltage*	Output Current	Efficiency
	(max.)	(nom.)(adjustable)	(max.)	(typ.)
TBLC 06-105	6 W	5.0 VDC	1.2 A	74 %
TBLC 06-112	6 W	12 VDC	0.5 A	81 %
TBLC 06-124	6 W	24 VDC	0.25 A	79 %
TBLC 15-105	12 W	5.0 VDC	2.4 A	81 %
TBLC 15-112	15 W	12 VDC	1.25 A	85 %
TBLC 15-124	15 W	24 VDC	0.63 A	85 %
TBLC 25-105	20 W	5.0 VDC	4.0 A	82 %
TBLC 25-112	24 W	12 VDC	2.0 A	86 %
TBLC 25-124	25 W	24 VDC	1.05 A	87 %
TBLC 50-112	48 W	12 VDC	4.0 A	88 %
TBLC 50-124	50 W	24 VDC	2.1 A	89 %
TBLC 75-112	72 W	12 VDC	6.0 A	89 %
TBLC 75-124	75 W	24 VDC	3.1 A	89 %
TBLC 90-112	90 W	12 VDC	7.5 A	90 %
TBLC 90-124	90 W	24 VDC	3.75 A	90 %

TBLC Series, 6 – 90 W

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Input Specificat	ions			
Input voltage			100 – 240 VAC; 50/60 Hz 85 – 264 VAC; 47-63 Hz	
			(below 100 VAC a derating of 2 %/V is required)	
Input voltage frequency			47 – 63 Hz	
No load power consumption 6–50 W models: 75–90 W models:				
Harmonic limits		EN 61000-3-2, class A		
Leakage current		0.25 mA max.		
Inrush current 6–50 W models: 75–90 W models:				
Output Specific	ations			
12 VDC models:			5.0 – 5.5 VDC* 12.0 – 16.0 VDC* 24.0 – 28.0 VDC*	
Regulation	 Input variation Load variation (10–90) 	D %)	0.3 % max. 0.3 % max.	
Hold-up time		60 ms min. (at 230 VAC) 15 ms typ. (at 115 VAC)		
Start-up	– Start up behavior – Start up time	TBLC 75-112 and 90-112: other models:		
Ripple and Noise (20 I	MHz bandwidth)	50 mVp-p max.		
Current limit (continuous)			105 – 130 % of lout nom., constant current	
Short circuit current TBLC 75-112 and 90-112 other models				
Output overvoltage protection			150 % of Vout nom. (typ.)	
DC OK signal	signal – trigger threshold ON		> 95 % of the set voltage	
General Specific	cations			
Operating temperature			−25°C to +70°C derating above +55°C: 2.5 %/K	
Storage temperature			–40°C to +85°C	
Temperature coefficient			0.02 %/K	
Cooling			convection cooling, no internal fan	
Pollution degree			2	
Humidity (non condensing)			5–95 % rel. H max.	
Altitude during operation			4800 m max.	
Isolation - I/O isolation			3000 VAC (4242 VDC)	
Class of protection			safety class II	
Degree of protection			IP 20 (IEC/EN 60529)	
Reliability, calculated MTBF (at 25°C acc. to IEC 61709)			> 1.9 Mio. h	

* Output voltage can be adjusted as indicated. However, output power has to be maintained at nominal value. This means the output nominal current has to be reduced in accordance with the increase of output voltage.

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