

Industrial Power Supplies

TBLC Series, 6 – 90 W

- 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 %



Input voltage frequency 47 - 63 Hz No load power consumption 6-50 W models: 75-90 W models: < 0.3 W Harmonic limits EN 61000-3-2, class A Leakage current 0.25 mA max. Inrush current 6-50 W models: 75-90 W models: 75-90 W models: 75-90 W models: 15/30 A (115/230 VAC) 25/50 A (115/230 VAC) Output Specifications 5 VDC models: 12 VDC models: 24 VDC models: 24 VDC models: 5.0 - 5.5 VDC* 12.0 - 16.0 VDC* Regulation - Input variation - Load variation (10-90 %) 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: - Start up time 0-75 % constant current load 0-100 % constant current load 1 s max. Ripple and Noise (20 MHz bandwidth) 50 mVp-p max.	Input Specificati	ons			
No load power consumption 6-50 W models < 0.3 W No load power consumption 75-90 W models < 0.5 W Harmonic limits EN 61000-3-2, class A Leakage current 0.25 mA max. Inrush current 6-50 W models 15/30 A (15/230 VAC) Qutput Specifications 5.0 - 5.5 VDC* Output voltage / current 5 VDC models 5.0 - 5.5 VDC* 12 VDC models 12.0 - 16.0 VDC* 24.0 - 28.0 VDC* Regulation - Input variation 0.3 % max. 0.3 % max. - Load variation (10-90 %) 0.3 % max. 0.15 ms typ. att 115 VAC) Start-up - Start up behavior TBLC 75-112 and 90-112 0-75 % constant current load other models Output voltage protection 105 - 513 0 % of lout nom., constant current load other models 100 - 100 % constant current load Short circuit current TBLC 75-112 and 90-112 70 - 90 % of lout nom. (typ.), foldback other models 120 - 200 % of lout nom. (typ.) Output overvoltage protection 105 - 130 % of lout nom. (typ.) 105 - 130 % of lout nom. 100 + 100 models Short circuit current TBLC 75-112 and 90-112 70 - 90 % of lout nom. (typ.) 105 C N signal 100 + 100 models 12	Input voltage				
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DC OK signal - trigger threshold ON > 95 % of the set voltage General Specifications -25°C to +70°C derating above +55°C: 2.5 %/K Operating temperature -40°C to +85°C Storage 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 IP 20 (IEC/EN 60529)	Short circuit current				
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derating above +55°C: 2.5 %/KStorage temperature-40°C to +85°CTemperature coefficient0.02 %/KCoolingconvection cooling, no internal fanPollution degree2Humidity (non condensing)5–95 % rel. H max.Altitude during operation4800 m max.Isolation- I/O isolationOlass of protectionsafety class IIDegree of protectionIP 20 (IEC/EN 60529)	General Specific	ations			
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Pollution degree 2 Humidity (non condensing) 5–95 % rel. H max. Altitude during operation 4800 m max. Isolation – I/O isolation Class of protection safety class II Degree of protection IP 20 (IEC/EN 60529)	Temperature coefficient	t		0.02 %/K	
Humidity (non condensing) 5–95 % rel. H max. Altitude during operation 4800 m max. Isolation – I/O isolation Class of protection safety class II Degree of protection IP 20 (IEC/EN 60529)	Cooling			convection cooling, no internal fan	
Altitude during operation 4800 m max. Isolation - I/O isolation Class of protection safety class II Degree of protection IP 20 (IEC/EN 60529)	Pollution degree			2	
Isolation – I/O isolation 3000 VAC (4242 VDC) Class of protection safety class II Degree of protection IP 20 (IEC/EN 60529)	Humidity (non condensi	ng)		5–95 % rel. H max.	
Class of protectionsafety class IIDegree of protectionIP 20 (IEC/EN 60529)	Altitude during operatio	'n		4800 m max.	
Degree of protection IP 20 (IEC/EN 60529)	Isolation	– I/O isolation		3000 VAC (4242 VDC)	
	Class of protection			safety class II	
Reliability, calculated MTBF (at 25°C acc. to IEC 61709) > 1.9 Mio. h	Degree of protection			IP 20 (IEC/EN 60529)	
	Reliability, calculated M	TBF (at 25°C acc. to IEC 617	(09)	> 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





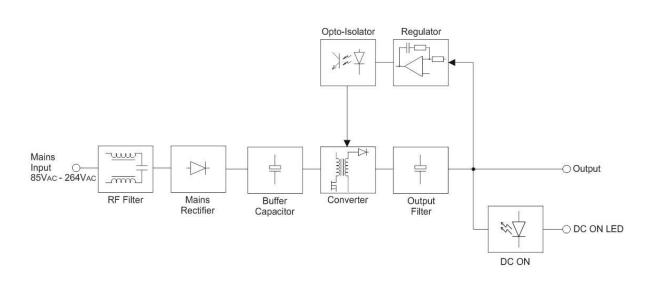
Safety standards	 Information technology equipment 	IEC/EN 60050 1 11 60050 1		
Salety standards	 Hormation technology equipment Household applications 	IEC/EN 60950-1, UL 60950-1 IEC/EN 60335-1		
	 – Household applications – Safety of machinery 			
	 Safety of machinery Safety for power electronic converter systems 	EN 60204 IEC/EN 62477		
	 – Salety for power electionic converter systems – Industrial control equipment 	UL 508		
	 – Industrial control equipment – Class II Power units 			
	– NEC class 2			
	 – NLC class 2 – Electronic equipment for power installation 	UL 1310 (not TBLC 90-xxx and TBLC 75-112) EN 50178		
	 Safety of transformers 	EN 61558-2-8, EN 61558-2-16		
	- Salety of transformers	EN 01558-2-8, EN 01558-2-10		
Electromagnetic compatibil	lity (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 compatibil	ity (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	RoHS directive 2011/65/EU		
	– RoHS			
Connection		screw terminal with combi-type screw head		
		for wire size 0.5 – 2.5 mm ²		

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

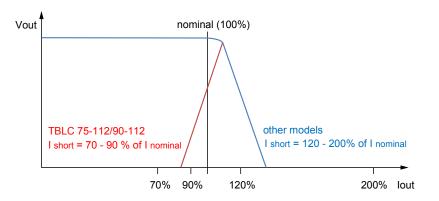


Function Specification

Block Diagram



Current Limit Characteristic



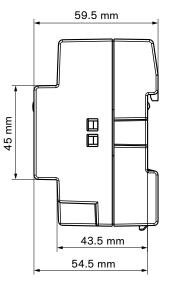
The load characteristic is designed to accomplish reliable start-up of heavy loads. Note: All 6 Watt models (TBLC 06-xxx) implement a pulsing power characteristic when in overload or short circuit conditions.

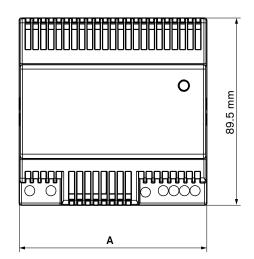
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated



Outline Dimensions

DIN 43	880 Size 1	Weigth
Model	Width A	[g]
TBLC 06	18 mm	60
TBLC 15	27 mm	80
TBLC 25	36 mm	110
TBLC 50	54 mm	180
TBLC 75	72 mm	220
TBLC 90	90 mm	280





Tolerances: ±0.5 mm



Wall Mounting Bracket

Instead of on a DIN-rail, the modules can also be mounted on a chassis or wall with help of a mounting bracket which is supplied as standard with each power supply.

Wiring			
	Description	Wire size	Torque
AC Input	all models: L, N only (2 pin terminal)	AWG 20 - 14 / 0.5 - 2.5 mm² max.	0.5 Nm
DC Output	6 – 50 W models: single terminal	AWG 20 – 14 / 0.5 – 2.5 mm² max.	0.5 Nm
DC Output	75 – 90 W models: double terminal	AWG 20 - 14 / 0.5 - 2.5 mm ² max.	0.5 Nm