

BI18L-Series

18W POWER SUPPLY

The BI family of AC/DC switch mode power supplies offers the best mix of cost efficiency and European quality standard. The standardized product is available in a variety of housings, secondary cables / plugs and options of customization.



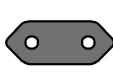
Features

- Ultra low standby losses
- High Efficiency
- Protection class II
- Wide selection of output plugs
- Manufacturing according to ISO 9001
- Short circuit proof

Options

- Customized product marking
- Different secondary cables / plugs available
- Housing modifications possible
- Additional country versions on request

Specification		
Output Power	18	W
Output Voltage	5 - 24	V
Output current	3	A
Universal input voltage	90 - 264	V
Operating temperature	0 - 40	°C
Efficiency	typ. 87,6	%
Standby Power	typ. 70	mW
Efficiency level	VI	
Insulation of output	SELV	
Leakage current	≤ 250	μA

Housing versions			
Wall plug-in, fix or interchangeable			
			
EU	UK	US	AUS
Secondary Connection Cable/Plug		USB Typ A port	

Approvals					
					

Test standards	
EN 55032 EN 55035 EN 61000-3-2 EN 61000-3-3	General EMC standards
EN 62368-1 UL 62368-1 AS/NZS 62368.1 GB 4943.1	Information technology equipment

Parameter	Symbol	Min	Typ.	Max	Unit	Test Cond.
Specifications are subject to change without any notice.						
Input Voltage	U_{IN}	90		264	V_{AC}	
	Operation above the specified maximum input voltage may cause damage. Below the minimum input voltage the unit does not meet the specification.					
Input Current	I_{IN}			800	mA	
Input Frequency	f_{IN}	47	50	63	Hz	
Efficiency	η		87,6		%	at full load
Stand-by power	P_{stb}		70	100	mW	without load
International efficiency mark		VI				
Output Power	P_{out}			18	W	
Output Voltage	U_{out}	5		24	V_{DC}	
Output voltage tolerance	ΔU_{out}			5	%	
Ripple Voltage	U_{rms}			200	mV _{rms}	
Output Current	I_{out}			3	A	
Max. Overload current	$I_{out\ overload}$			200	% of I_{out}	
	Maximum 1 minute overload duration, followed by 15 minute cooldown period.					
Isolation	Galvanic isolation with safety extra low voltage (SELV) output					
Means of protection		SELV				
Dielectric Strength	Standard	3			kV _{AC}	50Hz sinusoidal waveform
Leakage current	I_{LK}			250	μA	
Operating Temperature	T_{OP}	0		40	°C	free convection
Thermal protection	A thermal shut down protects the power supply and the surroundings form hazardous temperatures. To reset the thermal protection, unplug the unit and allow it to cool down.					
Storage Temperature	T_{ST}	-20	25	60	°C	
Humidity		5		95	%	non condensing
Single component failure	A single component failure does not cause any damage to persons or ambient (fire, explosions, etc).					
Disconnecting device	Direct plug-in	The power supply itself is the disconnecting device				

Ordering information and part number example

BI18L	-	xxx	yyy	-	w	z	u
		Voltage	Current		Housing Type	Primary plug	Secondary connection
		in Volt after dividing by 10	in Ampere after dividing by 100		I Interchangeable plug A Horizontal Case Type C Vertical Case Tye	dV EU fixed plug dU US fixed plug dB UK fixed plug dA AUS fixed plug	U USB Typ A port Blank Cable version

Reliability

MTBF	60.000 h	at 25°C ambient
Maintainability	The power supply is not to be repaired	