

BI36L-Series

36W 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.



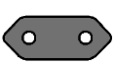
Features

- 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	36	W
Output Voltage	12 or 24	V
Output current	3 or 1,5	A
Universal input voltage	90 - 264	V
Operating temperature	0 - 40	°C
Efficiency	typ. 88	%
Standby Power	typ. 65	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 -			

Approvals				
				
		Intertek		

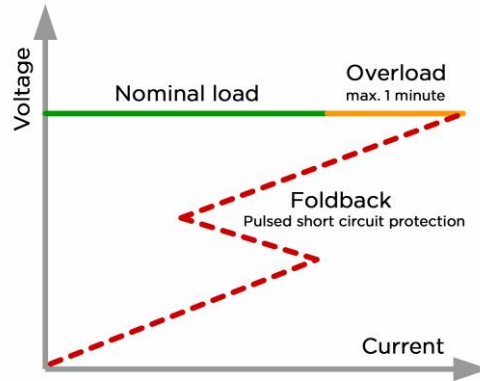
Test standards	
EN 55032 EN 55035 EN 61000-3-2 EN 61000-3-3 FCC Part15 Subpart B	General EMC standards
EN 62368-1 UL 62368-1 AS/NZS 62368.1	Information technology equipment
UL1310	Class 2 Power Units

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}			1200	mA	
Input Frequency	f_{IN}	47	50	63	Hz	
Efficiency	η		88		%	at full load
Stand-by power	P_{stb}	30	65	100	mW	without load
International efficiency mark		VI				
Output Power	P_{out}			36	W	
Output Voltage	U_{out}	12		24	V_{DC}	
Output voltage tolerance	$\Delta U_{out PCB}$			5	%	at PCB
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				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							
BI36L	-	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	dV EU fixed plug dU US fixed plug dB UK fixed plug dA AUS fixed plug	Blank Cable version

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

Output template



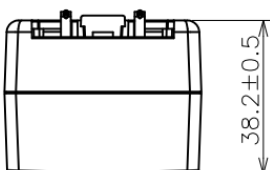
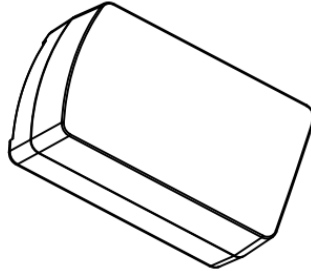
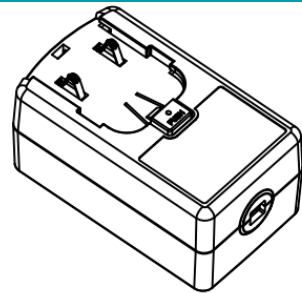
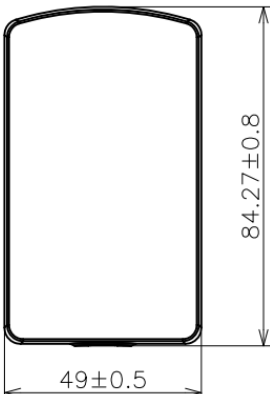
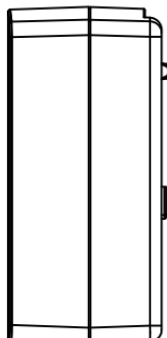
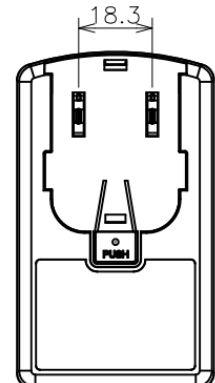
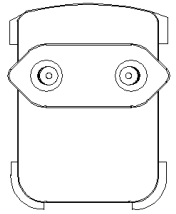
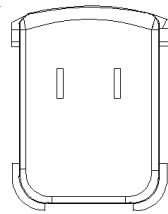
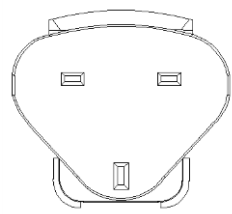
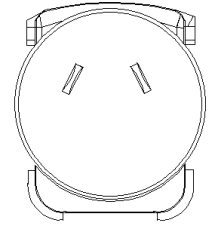
The power supply is protected against short circuit.
A shorted output does not cause any damage, and normal operation will resume once the short is removed.

Marking

Marking plate symbol explanation

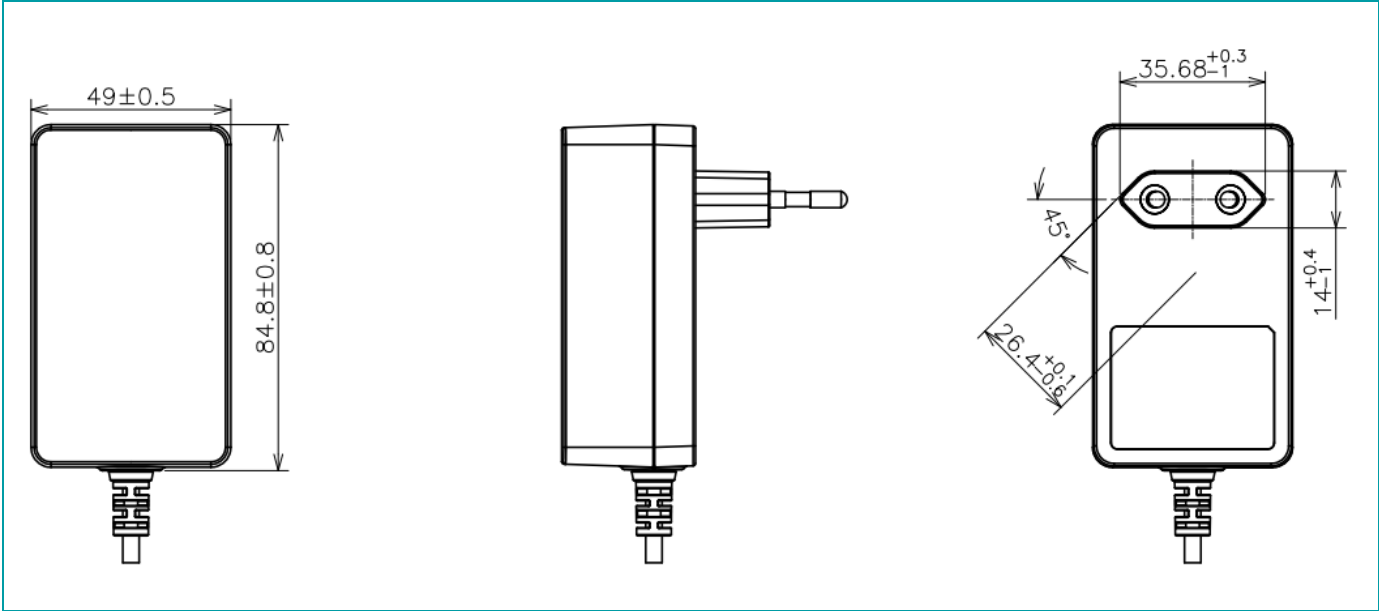
Product name Input parameters Output parameters Safety instructions Date code of production CE marking Approval marks		Conformity with the relevant EU directives.
		Conformity with the relevant UK regulations.
		Certification Mark, indicating that the product meets the German product safety law.
		NRTL Canada / USA Mark issued by Intertek
	RoHS conform 	The power supply has to be disposed appropriately according the local regulations for Waste Electrical and Electronic Equipment.
		For indoor use only.
		Class II
		Approval mark for Australia
		Energy Efficiency Level VI
		FCC EMC mark

Certification overview	
Housing	Information Technology
Interchangeable Plug	    
EU, UK	  
US, Canada	  
AUS	  

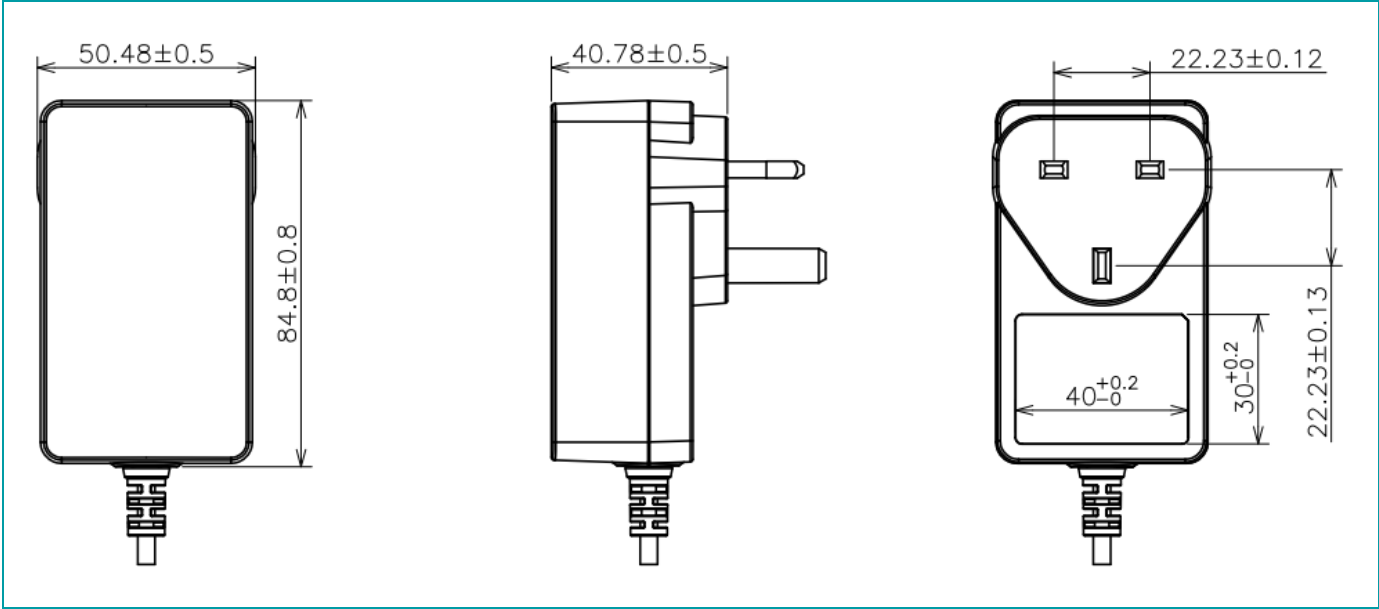
Interchangeable Plug Housing				
				
				
 EU Plug according EN50075	 US Plug according UL1310	 UK Plug according BS1363	 Australia Plug acc. AS/NZS 3112	

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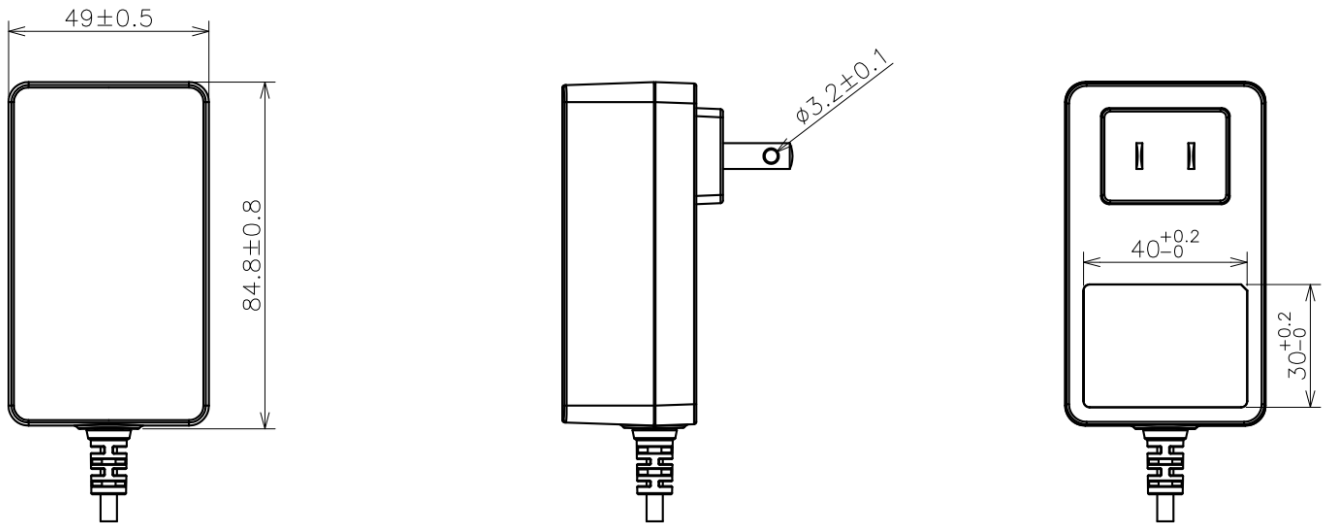
EU Housing



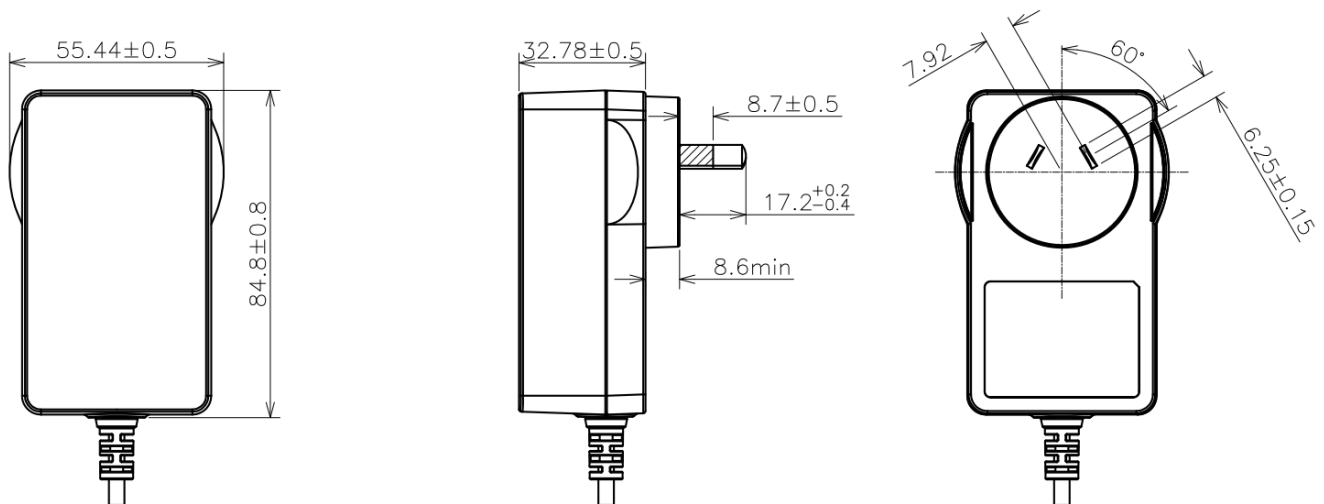
UK Housing



US Housing



AUS Housing



Packaging and weight

Information on request – depending on configuration of power supply and primary adapters

Energy Efficiency

This power supply family fulfills Directive 2009/125/EC with Commission Regulation (EU) 2019/1782. The vales “Average active efficiency”, “Efficiency at low load” and “No-load power consumption” are typical measured values, measured at one representative sample at an input voltage of 230VAC.

Input specification

Input Voltage	100-240	VAC
Input Frequency	50-60	Hz

Output specification

Output voltage	12	24	VDC
Output current	3	1,5	A
Output power	36	36	W
Average active efficiency (100%/75%/50%/25%)	88,6	88,3	%
Efficiency at low load (10 %)	88,95	82,78	%
No-load power consumption	70	70	mW

Revision	Date	Author	Change
A	22.09.2022	Mauritz	First edition

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