

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.



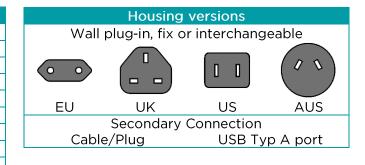
Features

- 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

Specificatio	n	
Output Power	18	W
Output Voltage	5 - 24	V
Output current	3	Α
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	μА



		Appr	ovals		
CE	G genrific genrific sicherhest	C Usage Usage Usage Intertek		IEGEE CB SCHEME	CA

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



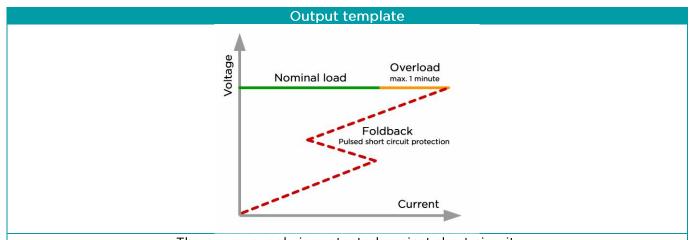


Parameter	Symbol	Min	Тур.	Max	Unit	Test Cond.	
Specific	Specifications are subject to change without any notice.						
	U _{IN}	90		264	V_{AC}		
Input Voltage		Operation above the specified maximum input voltage may cause damage. Below the minimum input voltage the unit does not meet the specification.					
Input Current		w the minimur	n input voitage	e the unit does 800	mA	specification.	
•	I _{IN}	47	50	63	Hz		
Input Frequency	f _{IN}	4/		63	НZ %	a+ 611 la a al	
Efficiency	η		87,6	100		at full load	
Stand-by power	P _{stb}		70	100	mW	without load	
International efficiency mark			VI	10	\		
Output Power	P _{out}	-		18	W		
Output Voltage	U _{out}	5		24	V _{DC}		
Output voltage tolerance	$\Delta_{\sf Uout}$			5	%		
Ripple Voltage	U _{r rms}			200	mV_{rms}		
Output Current	l _{out}			3	Α		
Max. Overload current	out overload			200	% of I _{out}		
La de La Carta	Maxim					oldown period.	
Isolation		Galvanic isoi	ation with safe		oitage (SELV)	output	
Means of protection			SE	LV	T.	5011	
5.1	0	_			137	50Hz	
Dielectric Strength	Standard 3			kV_{AC}	sinusoidal		
						waveform	
Leakage current	I _{LK}			250	μΑ		
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 compon	ent failure doe	s not cause an	y damage to p	ersons or amb	ient (fire, explosions, etc).	
Disconnecting device	Direct plug-in The power supply itself is the disconnecting device						

	Ordering information and part number example							
BI18L	_	XXX	ууу	-	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 dU dB dA	EU fixed plug US fixed plug UK fixed plug AUS fixed plug	U USB Typ A port Blank Cable version

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





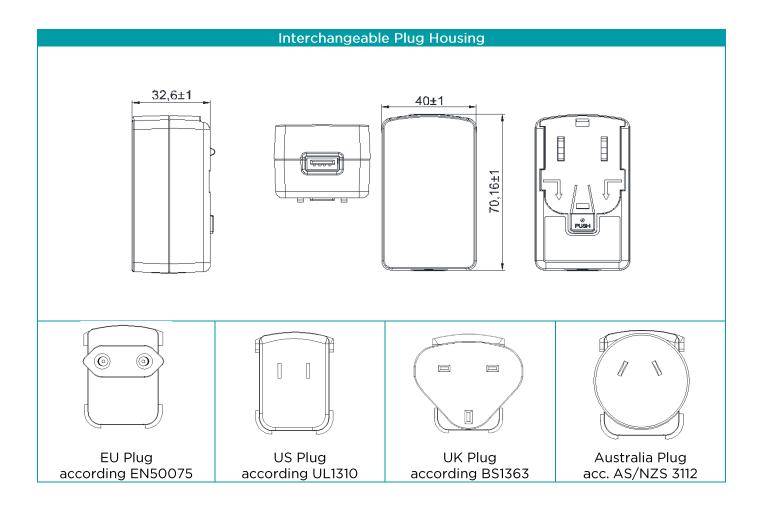
The power supply is protected against short circuit.

A shorted output does not cause any damage, and normal operation will resume once the short is removed.

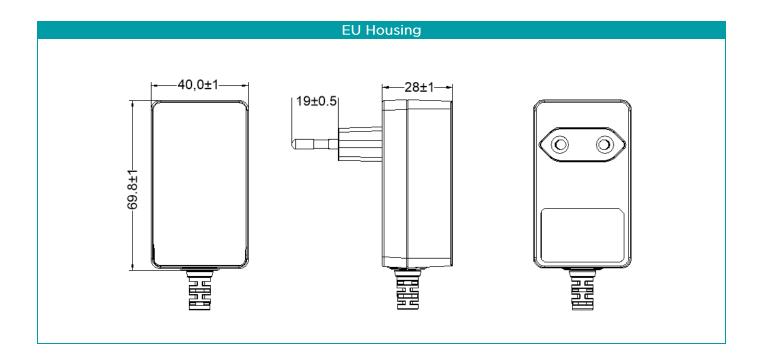
Marking		Marking plate symbol explanation
	C€	Conformity with the relevant EU directives.
	UK	Conformity with the relevant UK directives.
	Geprilite Sicherheit	Certification Mark, indicating that the product meets the German porduct safety law.
Product name	c Uster Us	NRTL Canada / USA Mark issued by Intertek
Input parameters Output parameters Safety instructions Date code of	RoHS conform	The power supply has to be disposed appropriately according the local regulations for Waste Electrical and Electronic Equipment.
production CE marking Approval marks		For indoor use only.
	<u></u>	Read instruction manual.
		Approval mark for Australia
	VI	Energy Efficiency Level VI
	F©	EMC mark

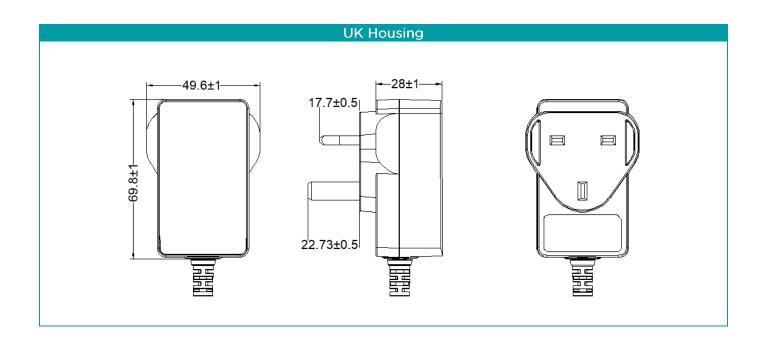


	Certification overview
Interchangeable Plug	CE SINTERED UK
EU, UK	CE SUK CA
US, Canada	CE IFOR CA
AUS	CE SE CA

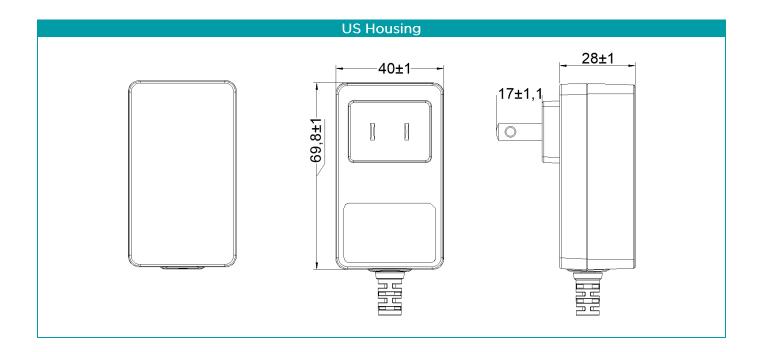












AUS Housing	
On request	



Packaging and weight

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

Energy Efficiency

This power supply family fulfils 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		

	O	utput spec	cification	
Output voltage	5	12	24	VDC
Output current	3	1,5	0,75	Α
Output power	15	18	18	W
Average active efficiency (100%/75%/50%/25%)	84,3	87,1	87,6	%
Efficiency at low load (10 %)	TBD	TBD	TBD	%
No-load power consumption	70	70	70	mW

Revision	Date	Author	Change
А	08.06.2022	Himmelmaier	First edition
В	22.09.2022	Mauritz	Test standards changed

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