MICROIDEA®

PRODUCT CATALOGUE

2018



PRESENTAZIONE AZIENDALE

MICROIDEA®

Via Serio, 39 - 24021 ALBINO (BG) Italy – ☎ +39.035.773 925/15



Microidea srl è situata in Albino - BG - ed ha oltre 30 anni di esperienza nell'assemblaggio, studio e sviluppo di soluzioni per l'automazione industriale e prodotti personalizzati.

Noi sviluppiamo e prototipiamo su richiesta ogni tipo di asservimento hardware e software come inverter per energie rinnovabili, apparecchiature per la pulizia domestica ed industriale, sterilizzazioni in campo medicale, comunicazioni e nel settore ferroviario ed automobilistico.
Abbiamo anche una ns. linea dedicata di alimentatori, caricabatterie, timers e relè, apparecchiature per il controllo dell'energia reattiva, commutatori di rete per applicazioni industriali.

Siamo a vostra disposizione per ogni tipo di produzione ed assemblaggio (5000 mq di area produttiva) e per studiare e sviluppare per voi ogni nuovo progetto.

COMPANY PRESENTATION

+39.035.773 933 - microidea@microidea.it - www.microidea.it



Microidea srl is located in Albino - BG - has a 30 years experience in assembling, study and development of industrial automation products and custom projects.

We develop and prototype on demand every kind of servo-hardware/sw controls like inverters for renewable energy, domestic care, medical, communications, rail transport applications and automotive.
We also have our own line of power supply, battery chargers, timers and relay, power factor control and genset for every industrial applications.

We are at your disposal for every production and assembly need, (production area actually sizes 5000 square meters) and study and development for every new project.

BC BCMF...06L5/12L5/24L2 Switching Battery Charger

- COMPACT SIZE - 1 MODULE - 17.5mm
- REAL DECLARED VALUES
- SCREW CONNECTORS
- DIN RAIL MOUNTING EN50.022
- SELF-EXTINGUISHED MATERIAL UL94 V0



RoHS 2 COMPLIANT

CE

EU Directives - CE Marking:

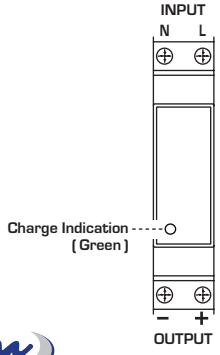
> 2014/30/UE - EMC
> 2014/35/UE - LVD

TECHNICAL DATA

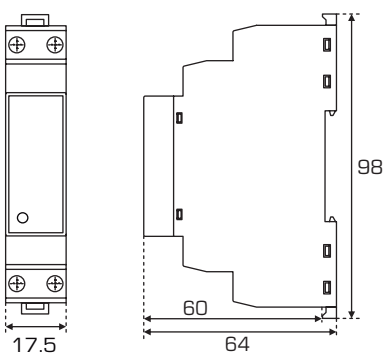
	UNIT	BCMF06L5	BCMF12L5	BCMF24L2
INPUT				
Supply voltage AC ±10%	V~	230		
Nominal Frequency	Hz	50 - 60 (range: 47 - 63)		
Power consumption (max. AC)	VA	12	18	15
In-rush current at rated V~ [1]	A	< 30		
Input overload protection	A	(internal)		
Input overvoltage protection % of VAC max	%	110		
OUTPUT				
Output voltage DC ±3%	V⎓	6.9	13.8	27.6
Max. continuos output current	A	0.5		0.2
Max. continuos output power	W	5.6	7.2	5.5
Mains/Load fluctuation control	%	± 3		
Ripple BW 20MHz at max. load	mV	300		
Hold-up time at rated V~ and max. load [2]	ms	> 20		
Rise time at rated V~ [2]	ms	700		
Charging curve type	-	Voltage and Current limited		
Output overvoltage protection min. % of Vout	%	120		
Output overload protection % of max. load [3]	%	110% with Hiccup		
GENERAL				
Efficiency at rated V~	%	75		
Working temperature - free convection	°C	-20 / +60		
De-rating 3.4% In/°C [4]	°C	> 45		
Storage temperature	°C	-30 / +70		
Electrical Insulation	kV	3		
Overvoltage Category	-	II		
Protection degree	IP	20		
Pollution degree	-	2		
Relative Humidity w/o cond.	RH%	90		
MTBF (MIL STD 217D at 35°C)	h	20 000		
Altitude up to	m	2000		
Weight	g	60		
Dimensions	mm	98 x 17.5 x 64		

[1] See Curve 3 - 4 in Technical Data
[2] See Curve 5 in Technical Data
[3] See Curve 2 in Technical Data
[4] See Curve 1 in Technical Data

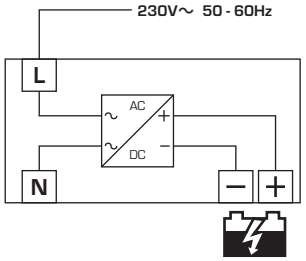
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



Microidea reserves the right to bring modifications to this documentation and the products described without some obligation of reporting.

BC BCMF...12E2/24E1 Switching Battery Charger

For Generating Groups

- 1 CHARGING LEVEL
- PROTECTIONS:
  - Overvoltage AC Input (110% Ue)
  - Shortcircuit AC Input Fuse
  - Reverse Polarity of Battery With Electronic Fuse Resetable
- SIZE 4 MODULES - 70mm
- REAL DECLARED VALUES
- DIN RAIL MOUNTING EN50.022
- SELF-EXTINGUISHED MATERIAL UL94 V0



■ OPTIONAL: Tropicalization of PCB

EU Directives - CE Marking:

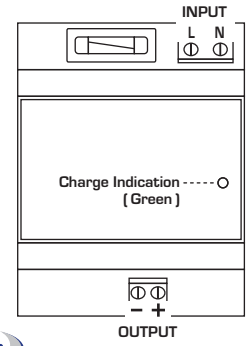
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> 2014/35/UE - LVD

TECHNICAL DATA

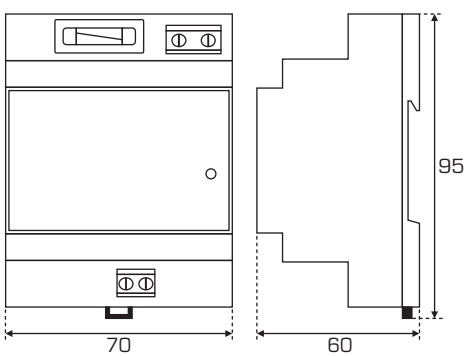
	UNIT	BCMF12E2	BCMF24E1
INPUT			
Supply voltage DC	V⎓	200 - 350	
Supply voltage AC ±10%	V~	230	
Nominal Frequency	Hz	50 - 60 (range: 47 - 63)	
Power consumption (max. AC)	VA	80	
In-rush current at rated V~ [1]	A	< 30	
Input overload protection T-type fuse	A	1	
Input overvoltage protection % of VAC max	%	110	
OUTPUT			
Output voltage DC ±7%	V⎓	13.8	27.6
Max. continuos output current	A	1.9	1.2
Max. continuos output power	W	25	
Mains/Load fluctuation control	%	± 2	
Ripple BW 20MHz at max. load	mV	300	
Hold-up time at rated V~ and max. load [2]	ms	120	
Rise time at rated V~ [2]	ms	700	
Charging curve type	-	Voltage and Current limited	
Output overvoltage protection min. % of Vout	%	120	
Output overload protection % of max. load [3]	%	110% with Hiccup	
GENERAL			
Efficiency at rated V~	%	80	
Working temperature - free convection	°C	-20 / +60	
De-rating 3.4% In/°C [4]	°C	> 45	
Storage temperature	°C	-30 / +70	
Electrical Insulation	kV	3	
Overvoltage Category	-	II	
Protection degree	IP	20	
Pollution degree	-	2	
Relative Humidity w/o cond.	RH%	90	
MTBF (MIL STD 217D at 35°C)	h	20 000	
Altitude up to	m	2000	
Weight	g	130	
Dimensions	mm	95 x 70 x 60	

[1] See Curve 3 - 4 in Technical Data
[2] See Curve 5 in Technical Data
[3] See Curve 2 in Technical Data
[4] See Curve 1 in Technical Data

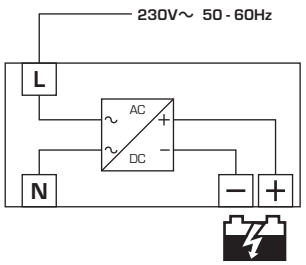
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



BC BCMI12E10/BCMI12E15 Switching Battery Charger

- 4 STATES BATTERY CHARGING
- ADJUSTABLE CHARGING CURRENT
- LLC TECHNOLOGY
- PFC CONTROL
- HIGH EFFICIENCY
- LOW HEAT DISSIPATION
- LED STATUS DISPLAY
- METALLIC BOX PROTECTION IP20
- COMPACT SIZE - 66mm
- DIN RAIL MOUNTING EN50.022



COMING NEW PRODUCT SOON

RoHS 2 COMPLIANT

CE

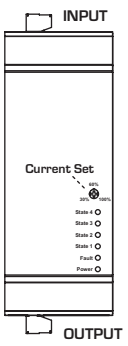
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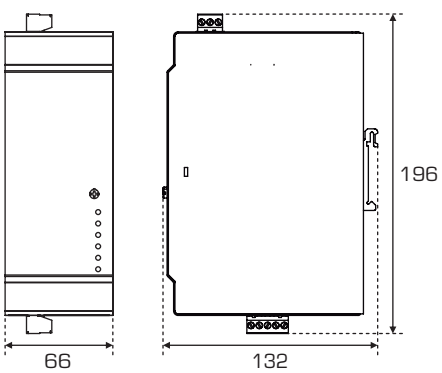
TECHNICAL DATA

	UNIT	BCMI12E10	BCMI12E15	BCMI24E10	BCMI24E15
INPUT					
Supply voltage DC	V⎓	150 - 350			
Supply voltage AC ±10%	V~	90 - 264			
Nominal Frequency	Hz	50 - 60 (range: 47 - 63)			
Power consumption (max. AC)	VA	130	240	260	480
In-rush current at rated V~ [1]	A	< 30			
Input overload protection T-type fuse	A	4			
Input overvoltage protection % of VAC max	%	110			
OUTPUT					
Output voltage DC ±1.5% (Floating state)	V⎓	13.8		27.6	
Max. output current adj. 30 - 100% of Iout	A	10	15	10	15
Max. continuos output power	W	120	220	240	360
Mains/Load fluctuation control	%	± 2			
Charging curve type	-	3 Levels			
Output overvoltage protection min. % of Vout	%	120			
Output overload protection % of max. load [2]	%	110% with Hiccup			
GENERAL					
Efficiency at rated V~	%	92			
Working temperature - free convection	°C	-20 / +60			
De-rating 3.4% In/°C [3]	°C	> 55			
Storage temperature	°C	-30 / +70			
Electrical Insulation	kV	3 (IN/OUT) 1.5 (IN/⏚) 0.5 (OUT/⏚)			
Overvoltage Category	-	II			
Protection degree	IP	20			
Pollution degree	-	2			
Relative Humidity w/o cond.	RH%	90			
MTBF (MIL STD 217D at 35°C)	h	15 000			
Battery alarm	-	NPN open collector 500mA (max)			
Threshold for Low Battery voltage (V Rated)	%	< 50			
Protection against battery reverse polarity	-	Electronic Circuit			
Altitude up to	m	2000			
Weight	g	1500	1700	1600	1800
Dimensions	mm	196 x 66 x 132			

DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM

