

### Features

- RoHS compliant (VE versions)
- Programmable output current
- Booster versions available
- Size: 4.6" x 2.4" x 0.5" (116,8 x 61,0 x 12,7 mm)
- UL, CSA, TÜV
- Compatible with all major battery types
- Inputs: 48, 150, 300 Vdc
- Outputs: 12, 24, 48 Vdc Nominal
- Analog current monitor
- Analog overvoltage adjust
- CE Marked

### **Product Highlights**

The BatMod combines Vicor's industry standard package with the flexibility of a power converter whose output voltage and output current may be independently set. BatMod's allow the user to independently program a constant output current and a maximum float voltage. The float voltage is the point at which the BatMod transitions from constant current to constant voltage. These features make the BatMod an ideal candidate for battery charging and other applications which require a controlled current source.

The BatMod is also available in booster versions that enable the designer to create systems capable of multiple kilowatts of output power.

With its wide range of input options, the BatMod is compatible with all major battery types. This new current output module finds application in systems where easily programmable current is of primary importance.

Consult factory for availability of input/output voltage ranges not shown.

#### **Packaging Options**

SlimMods<sup>™</sup>, high power density, flangeless packages and FinMods<sup>™</sup>, featuring integral finned heatsinks.

**SlimMod:** Option suffix: - **S** Example:

VX - XXX - XU - BM **-** S

**FinMod:** Option suffix: - **F1**, - **F2**, - **F3** and - **F4** Examples:

VX - XXX - XU -BM -F1, 0.25"H longitudinal fin VX - XXX - XU -BM -F2, 0.5"H longitudinal fin VX - XXX - XU -BM -F3, 0.25"H transverse fin VX - XXX - XU -BM -F4, 0.5"H transverse fin Data Sheet *BatMod<sup>TM</sup>* Battery Charger Current Source Modules



# Specifications

(typical  $T_{BP} = 25^{\circ}C$ , nominal line, 75% load, unless otherwise specified)

Parameter	Rating	Notes
Nominal input voltage	48 Vdc, 150 Vdc,	42 – 60 V, 100 – 200 V,
	300 Vdc	200 – 400 V
Output current (Refer to safe operating curves on page 2)	0 – 14.5 A	12 V battery system
	0 – 7.25 A	24 V battery system
	0 – 3.6 A	48 V battery system
Current control input	1 – 5 V	Zero to max. current
Current monitor output	1 – 5 V	Zero to full load
Voltage control input	0 – 2.5 V	Zero to FS output
Output voltage setpoint	15 V, 30 V, 60 V +/-1%	12 V, 24 V, 48 V
Trimmable +10%, -25%		Output Respectively
Dynamic characteristics	V-Mode: 300 µsec typ.	VNOM for 50 – 100%
	I-Mode: 250 µsec typ.	load changes
Dielectric withstand		
Input to output	3,000 Vrms	
Output to baseplate	500 VRMS	
Input to baseplate	1,500 VRMS	

### Part Numbering

(typical model: input 300 Vdc, output 12 Vdc at 200 W)



Vicor Corp. Tel: 800-735-6200, 978-470-2900 Fax: 978-475-6715

BatMod Battery Charger Current Source Modules

Rev. 1.5

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# **MECHANICAL DIAGRAM**



### **Safe Operating Conditions**



# **Typical Applications**





Figure 2 – DC Input Programmable Current Source

Figure 1 – DC Input Battery Charger

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Vicor s comprehensive line of power solutions includes high density AC-DC and DC-DC modules and accessory components, fully configurable AC-DC and DC-DC power supplies, and complete custom power systems.

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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



### Как с нами связаться

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