

Manual

Regulated DC power supply



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BV-10D



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1	Box	conte	nts
-	DOA	conte	

	Quantity	Description
	1	Battery power supply BV-10D
	2	Chargers CH1-5m
	1	Manual (english)
	The shipment in discharging of Nin	icludes charged batteries. However, due to the self- AH-batteries they should be recharged again before use.
Read chap. 5 before	Read chap. 5 (Ma	intenance) before charging the devices!
charging!	2 Charae	cteristics
	The BV-10D can impedance conve	be used as mobile power supply for antennas and rters, such as the R&S EZ12.
	Two internal NiM	H-battery packs make the system mobile and easy to use.

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3 Housing and connectors / switches

Fig. 3.1 Shows the front side of the *BV-10D*. All connectors switches and LEDs are located here:

- power switch (*On / Off/Charge*)
- charge plugs Charge Bat. 1 und Charge Bat. 2
- range indicator -LEDs (10dB ... 80dB, μV/m, μA/m, VZ)
- output plug (Pinning see Fig. 3.2)
- control LEDs (-10V .. +10V) to check output voltage level



Front side of the BV-10D with connectors, switches and control-LEDs

Fig. 3.1: front side of BV-10D

lug.
lug.

Market State Market State	BV-10D	Date: 01/18/13
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4 Use of BV-10D	of the dedicated equipment to the BV 10D	
• switch on the BV-10D	with the power switch (<i>On / Off/Charge</i>)	
 If a system with a measuring range LED 	coded plug is connected, the applicable will be switched on.	
• The system is ready for	or use now.	
The output voltage of +/-10 LEDs (-10V +10V). As soc 100mV from the nominal va to be charged with the delive	IV can be checked with the integrated control on as the output voltage deviates more than lue, the LEDs are switched off. The BV-10D has ered chargers then.	Control LEDs give information on output voltage
Charge the system as describ	oed in chap. 5 : Maintenance).	

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		5 Maintenance	
M cu	aximum charging rrent is 1 A	Recharge batteries after use with the enclosed of battery effect, discharge the devices every 5 times automatic switch off (Leave the system on, until it Afterwards, charge the devices as usual.	charger. To prevent a lazy s completely by using the t turns off automatically).
Devices must be turned off before		The devices have to be turned off before connect is disregarded, the system might get damaged!	ting to the charger. If this
co ch sy: da	nnecting to arger, or else the stem might get maged!	Fig. 5.1 shows the pinning of the charge connected to pin 2 (+) and pin 4 (GND). An external can be connected to pin 3 (+) and pin 4 (GND). which are certified by mk-messtechnik.	ctor. Chargers have to be ernal supply (68V, 0.5A) Use only power supplies
Pir bu	nning of charge- / ffer connector	5 Temp - 4 GND 0 0 1 Ter 0 0 2 Bar	mp + tt +
		3 ext. Supply Fig. 5.1: Pinning of charge- / buffer connector	
Do or du	The included chargers are not meant to power the transceivers during operation. The transceiver outside the shielded room can be run with external power supply (optional). The internal transceiver can be run an external battery, if needed (optional). Do not use the external power supply or charger to power the transceiver inside the shielded room v EMI-tests are running. This might damage it!		e transceivers during oom can be run with an nsceiver can be run with se the external power the shielded room while
		Due to self-discharge issues with NiMH batteries, use, if the system has not been used for a longer t	recharge batteries before ime.
		Do not use cleaning agents or solvents to clean slightly moistened, soft cloth.	the devices, only use a
Do de Sh ha	o not open the vices! ort cut / fire zard!	Do not open the devices, as there are no parts maintained. The opened housing can pose a fir circuit currents! Please contact your distributor of have any problems. Send in the complete system problem cannot be solved by turning the device checking the positions of the switches. Please con sending in the devices.	inside which have to be re hazard through short- r the manufacturer if you n (both transceivers), if a es off and on again or by tact us in any case before



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6 Trouble shooting

The following trouble shooting list is provided to assist you while having problems. It might let you use the system again without a long down time:

Error:	Possible reasons:	Solution:
No DC voltage at output	Batteries empty	Charge batteries
	Device powered off	Turn on device
Control LEDs for output voltage do not light up	Batteries empty	Charge batteries
	Device powered off	Turn on device
Coding LED for connected device does	Cabling defective	Check cabling and replace if needed
not light up	display defective	check coding (bridged to GND => LED must
	BV-10D defective	light up => take plug pinning into account!!!)

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7 Accessories / Options

Part	Order number	Comment
Charger with connector plugs	CH1-5m	Standard charger 1 channel, 5poled
Manual	MA- <i>BV-10D</i>	German or english

8 Contact

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BV-10D

Datasheet

Field of application and characteristics

The *BV-10D* can be used as mobile power supply for antennas and impedance converters, such as the R&S EZ12.

Two internal NiMH-battery packs make the system mobile and easy to use.



Application



Technical data

Output voltage:	+ 10 V DC (± 0,1 V, regulated, optical error display via LED)	
	- 10 V DC (± 0,1 V, regulated, optical error display via LED)	
Output current:	max. 200mA (internal fuse)	
Output connector:	12-poled, Binder series 680	
Power supply:	2 x 10 NiMH cells with 2,5 Ah (12V)	
Case dimensions:	85mm x 85mm x 105mm aluminum case with rubber protectors	
Weight:	approx. 1500g	
Misc.:	coding display for Rohde & Schwarz equipment	
	up to 4 positive and 2 negative output voltages possible	