

TECHNICAL SPECIFICATIONS

BDC4825

Bi-directional 48V 25A DC-DC Charger with 12/24V
Alternator input and max 100V Solar input

NEW



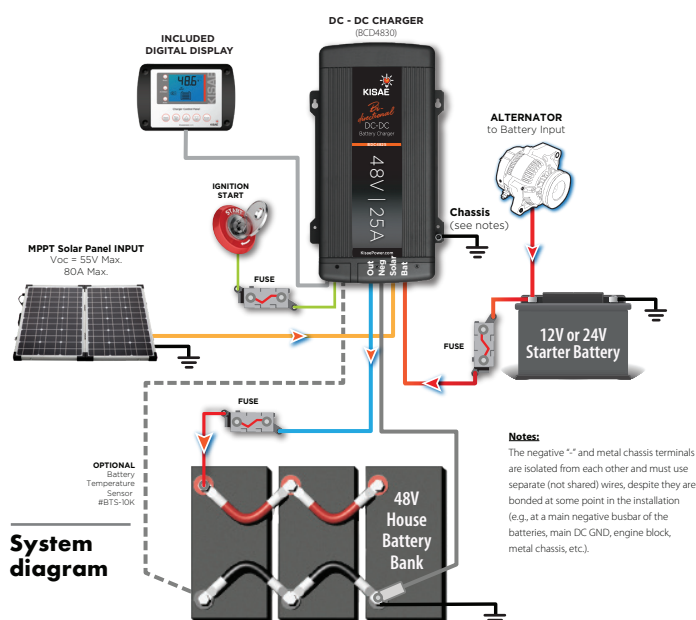
Product features

- Dual input: Solar max 100V(VOC), Alternator 12V or 24V system Maximum Output Current 25A.
- Multi-stage charging ensures batteries are charged to battery manufacturer's recommendations.
- Microprocessor controlled charging algorithm (Bulk, Absorption, Float) for Gel, Flooded, AGM and Lithium batteries
- MPPT solar regulator provides maximum power from solar panels to battery.
- Will re-start latched off Lithium battery

Product dimensions

Length: 14.0", Width: 8.1", Height: 3.8" (356mm x 205mm x 97mm)
Weight: 7.1 lbs. / 3.23 Kg

Specifications subject to change without notice.



System diagram

Terminal Connections



KISAE has provided this drawing as a guide only. Installers using it must ensure the system is installed to meet local code requirements.

Please refer to the Owner's Manual for proper fuse protection and wire sizing.

BDC4825

Bi-directional 48V 25A DC-DC Charger with 12/24V
Alternator input and max 100V Solar input

NEW

DC Output

Output Current	Maximum 12.5A with 12V Alternator Input
	Maximum 25.0A with 24V Alternator Input
	Maximum 25A with solar input
Output Voltage Range:	
Charge	54 - 60V
Float	48 - 54V
Equalize	62V
Charging Control	5 Stages (Test/Bulk/Absorption/Float/Recharge)
DC Output Bank	One
Selectable Battery Type	Gel, Flooded (with Equalization), AGM, Lithium, Program
Parasitic Current	< 500 uA
Efficiency	> 90%

DC Input (Starter Battery/Alternator)

DC Input Range	10.5 - 32Vdc
DC Input Start up Voltage (user selectable)	11.5 - 13.8V with 12V Alternator System 23.0 - 27.6V with 24V Alternator System
Engine Start Control: ON	DC input from Starter Battery/Alternator
Engine Start Control: OFF	DC Input from PV input (if applicable)
Maximum Input Current	80A

DC Input (PV)

Max. PV Open Circuits Voltage	100Vdc (VOC)
Max. Input Current:	80A max.
DC Input Start Up Voltage:	21.5Vdc
DC Input Nominal Operation:	15 - 80Vdc
MPPT Tracking Efficiency	> 98%

DC Output Protection and Features

DC Output Short Circuit	Yes (shutdown), Auto Reset
Over Charge	Yes (shutdown), Auto Reset
Over Temperature	Yes (de-rated and shutdown)
Cooling	Force Air Ventilation
Temperature Setting	High, Normal, Low (no battery temp. sensor connected)
Battery Temperature Sensor Port	RJ12 (optional Battery Temperature Sensor use)
Digital Display Port	RJ12 (Remote Panel use)

Display Panel

Digital Display	Detachable LCD display with back lighting (Voltage, Current, Status, Error Code)
Communication	CANBUS

Reverse Charging

12V Alternator System	Constant 13.5V @ 25A
24V Alternator System	Constant 27.0V @ 25A
Reverse Function	Activated by Com 1 port

Enclosure

DC Input Connection	Hardwire
DC Output Connection	Hardwire

Size

Dimensions (L x W x H)	14.0" x 8.1" x 3.8" (356mm x 205mm x 97mm)
Net Weight	7.1 lbs. / 3.23 Kg

Accessories (optional)

Battery Temperature Sensor	BTS 10K (For battery charging voltage adjustment)
----------------------------	---

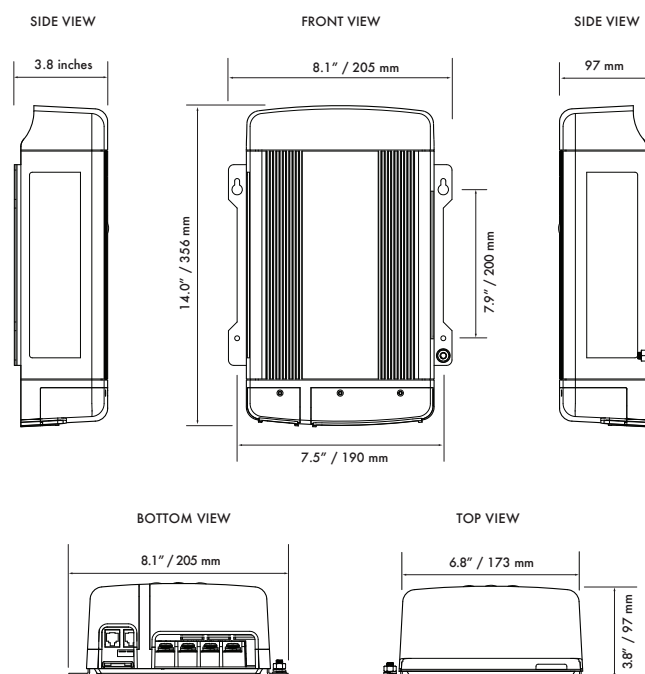
Regulatory Compliance

Markings	CE, e-Mark
EMI/EMC	CE EMC / Tested to E9-09



Certified to meet all
CE Regulatory approval
standards in Europe.

Schematic Drawings



Standard warranty

2 year warranty

All specifications subject to change without notice. Without recourse.
Copyright © 2024 Kisa Technology Inc. All Rights Reserved under UCC 1-308 without prejudice.

To learn more about this and other fine Kisa products please contact:

info@kisaetechnology.com

kisaepower.com

Distributor: