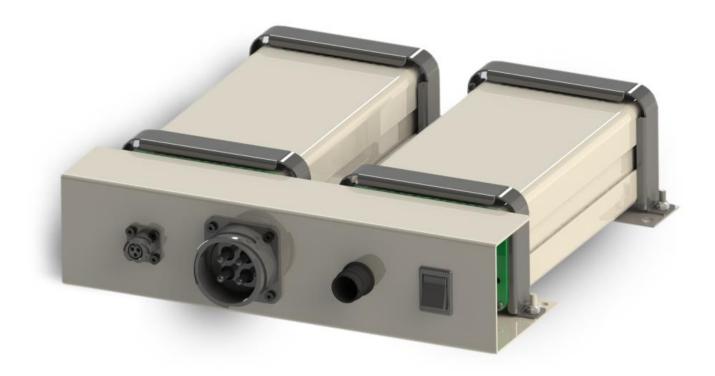
MIL ABC CHARGER 24V / 80A







CRITICAL INFORMATION

The technical data, information and illustrations have been carefully compiled and corresponds to the product status at the time of printing this manual. The manufacturer reserves the right to improve or modify the product, specifications and documentation at any time without prior notice, provided that it is not considered necessary for technical reasons.

Descriptions have been prepared very carefully and in detail, yet it is never possible to completely rule out wrong. Under no circumstances will the manufacturer be held responsible for errors or damages resulting from wrong use or from misinterpretation.

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function of the charger.

Warning!



Danger! High voltage!

Failure to follow this safety instruction can result in injury or death, or may damage or destroy the charger.

Failure to follow these safety instructions could result in personal injury, property damage or impair the

Important Information!

To avoid operator error, read this manual carefully before installing and using the product and follow the appropriate instructions. Keep this manual near the product so that it can be referred to later.

6

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.





TABLE OF CONTENT

CRITICAL INFORMATION	1
USER MANUAL	3
General	3
Installation	3
Connection overview	3
Function	4
STANDARDS	
CHARGING CURVES	5
Vented, open	
Valve-regulated, Gel	5
Vented, open	5
Valve-regulated, Gel	
TECHNICAL SPECIFICATION	5
WARRANTY	
Warranty claim	6



USER MANUAL

- Read this instruction before the charger is taken into use.
- Keep this manual within easy reach for the user of this battery charger.
- Hydrogen gas will be produced when charging lead-acid batteries and hydrogen gas is explosive.
- Open flames and sparks should be kept away from batteries they may produce explosions.
- The charger should be switched off before the charger/battery plug is disconnected.
- It is related with real danger to touch any parts inside the charger. Do not do any repair work with the main switch ON and to be real sure disconnect the mains connector.

General

The ABC Charger is suitable both for Freely Ventilated- (Wet) and Valve Regulated- (Dry) lead/acid batteries.

The charger is small and is very light and can therefore easily be fitted close to the battery. (The charger can be delivered with program compensating for the equipment base load).

The charger operates in high frequency and should be connected to a standard 230V mains connection with ground. The built in micro controller controls the charging process according to the chosen charging algorithm.

The micro-controller is also controlling the charging progress with regards to temperature in the charger and time. If a fault occurs in some cells or the temperature rises the charging current will be limited. If you have a special requirement of charging algorithm or application, please contact Primepower AB.

Installation

The ABC Charger is mainly suited for indoor use.

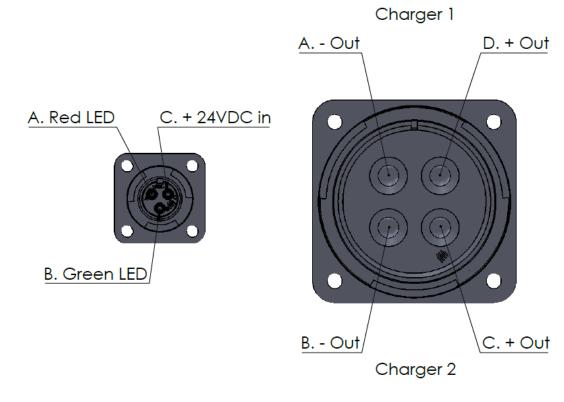
It can be used positioned horizontally on a table or a shelf, hang on a wall using the free supplied bracket or as a built-in charger in the vehicle or machinery. When it is built in it has to be shock absorbed.

The charger can be with fixed connection to the battery or with conventional connectors.

Position the charger in such a way that the air supply will not be obstructed.

When the charger is fitted on a wall or mounted in a vehicle it should be horizontal to limit dust and moisture to enter it.

Connection overview





Function

Check that battery type and size correspond to the setting of the charger. Also check that the polarity between the charger and the battery is right. Positive + to positive + and negative – to negative -.

Connect the battery to the charger and switch on the charger, the charging process will start in a few seconds. To restart the charger simply pull out and reconnect the mains. MIL ABC 24/80 has an ON/OFF switch on the front panel.

The charging time depends on the size of battery and the depth of discharge.

A freely ventilated battery (Wet) can be discharged to max. 80% and a valve regulated (Dry) with max 70%.



Switch off the charger before the battery is disconnected. If the battery is disconnected without switching of the charger, sparks may be produced.

STANDARDS

- MIL-STD 461 F, Army ground applications
- MIL-STD 1275D
- Vibration/shock according to IEC 60028-2-6





CHARGING CURVES

Primepowers ABC charger is extremely flexible when it comes to charging curves. When ordering a charger be sure to inform the specifications needed so we can deliver a charger programmed for your needs. If nothing is said, the charger will always be programmed to default. The charging curve for all battery topologies are available.

Defaul program - vented /	valve-regulated parallel consumption, J –program
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	Vented, open		Valve-regulated, Gel	
Charging phase	Voltage level	Time	Voltage level	Time
l1-fas	>1,4V/cell	Max 12h	>1,4V/cell	Max 12h
U1-fas	2,4V/cell	Max 12h	2,35V/cell	Max 12h
U2-fas	2,28V/cell	Unlimited	2,3V/cell	Obegränsad

Traktionary batteries (Gel/AGM), M-/B-program

	Vented, open		Valve-regulated, Gel	
Charging phase	Voltage level	Time	Voltage level	Time
I1-fas	>1,4V/cell	Max 12h	>1,4V/cell	Max 12h
U1-fas	2,4V/cell	Max 12h	2,35V/cell	Max 12h
I2-fas	Max 2,8V/cell	Min 1h max 4h	Max 2,8V/cell	Min 1h max 4h
U2-fas	2,26V/cell	Unlimited	2,26V/cell	Obegränsad

TECHNICAL SPECIFICATION

TERM	MIL ABC 24V/80A
Articlenumber	0036878
Dimensions (L x W x H)	336,24 x 335 x 90 mm
Weight Kg	4,8 Кg
Ambientemperature	– 46°C > +55°C
VAC input	90 Volt - 255 Volt AC, 45 Hz - 400 Hz (<200V brings power limitations) The unit should be connected to fuse with "C" characteristics.
Output current	80A
VDC Output	24V
Mains connection	Calix miniplug
Battery connection	Glenair CA3102E24
Protection class	Class I, grounded
IP Class	IP20
Cover	Aluminium, RAL 1013
Power factor	~1
General	Protection against wrong polarity and short circuits. CE-certified in accordance with valid EN-standards. Can be used as a power supply (special program).



WARRANTY





WARNING!

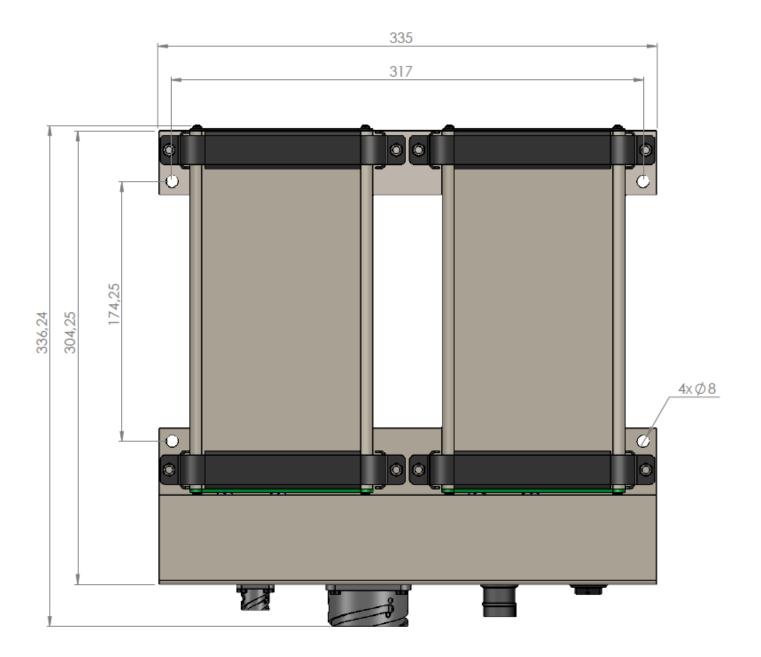
Do not use this product without reading the entire manual! Incorrectly installed or use of the product can severely damage the user, destroy the product or connected equipment. If the product is used the wrong way, warranty may be void.

- Primepower warranty applies only to original purchaser within a period of 24 months from the date of delivery.
- Primepower guarantees that the product is in excellent condition upon delivery, unless comes full refund.
- If the user has not conducted a proper installation or used the product incorrectly applies no warranty.
- If wrong algorithm, charging curve, is chosen by the user the warranty will be void.

Warranty claim

To take advantage of warranty please contact your retailer. Please have following information available:

- Receipt
- Model number
- Product serial number
- A brief description of the problem



Gullhallavägen 20C, SE-352 50 | +46 (0)470-727400 | support@micropower-group.com