

MOBILE POWER SOLUTIONS

# DOMETIC DC1 DC TO DC CHARGERS

Dometic DC1 Chargers can charge any type of battery quickly and safely.

## SMART CHARGING

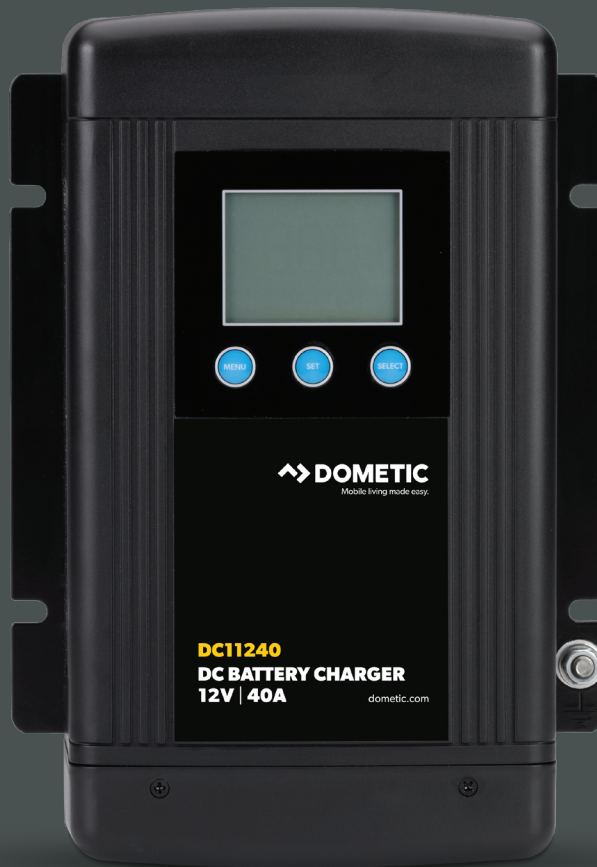
SAFELY CHARGE ALL  
MAJOR BATTERY TYPES,  
INCLUDING LITHIUM

## PROTECTS START BATTERY

MIX LITHIUM HOUSE  
AND AGM START

## BUILT-IN SOLAR CONTROLLER

500W MPPT



Mobile living made easy.



# CHARGE LITHIUM HOUSE BATTERIES WHILE UNDERWAY

The Dometic DC1 DC to DC Charger extends your time on the water, and safely charges lithium and other chemistries from your start battery, while protecting the start battery, never leaving you stranded.

## Features

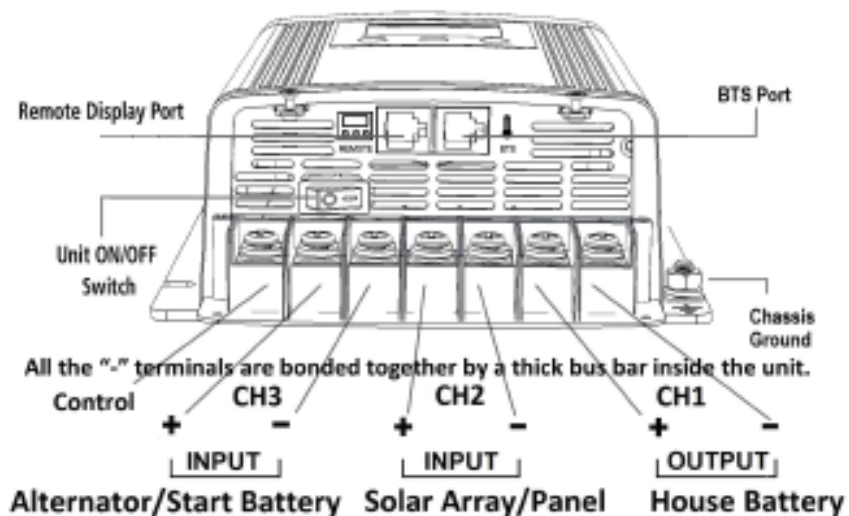
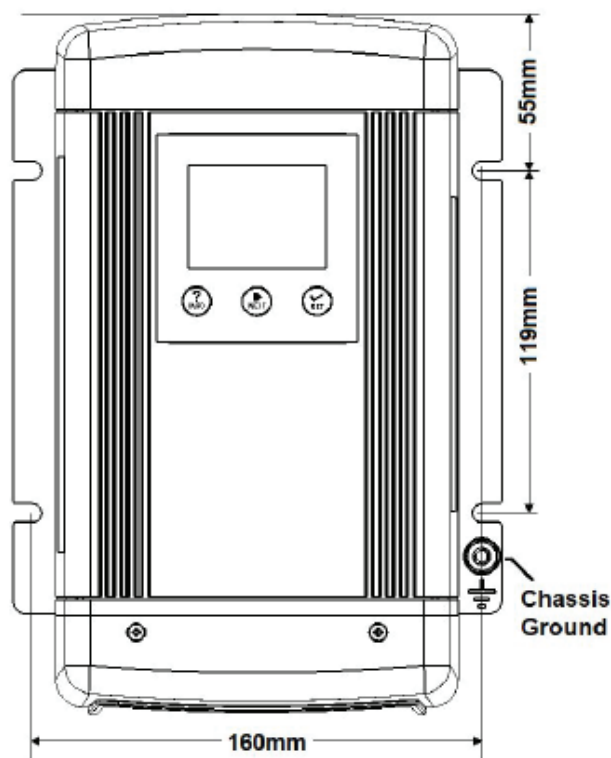
- Keeps AGM start charged
- Excess power charges house bank of any chemistry
- Up to 50A of charging
- Built-in solar-controller-charging freedom
- Boosts charge voltage to ensure proper charging of lithium batteries



# SLEEK, BOLD STYLING REDEFINES THE LOOK OF MOBILE POWER

## ORDER INFORMATION

	Part No.
Charger, DCDC 12V with MPPT	DC11240



# AVAILABLE IN 200W AND 3000W OUTPUTS

TECHNICAL INFORMATION	
<b>OPERATION</b>	
Normal Start-Up Voltage	> 13.2V
Normal Under Voltage Recovery Voltage	> 12.8V
Under Voltage Shutdown (with load)	10.5V
Over Voltage Shutdown	16.0V
Over Voltage Recovery	15.5V
Maximum Input Current	50A
<b>OUTPUT RATING</b>	
Output Voltage	12V Nominal (8.0V min)
Output Current	40A ~ 50A
Output Power	775W
<b>CHARGER DC OUTPUT (CH1)</b>	
Selectable Battery Type	Gel, AGM, Flooded, Lithium, Program
Charger Voltage Range	13.8V – 15.5V
Float Voltage Range	13.0V – 13.8V
Charger Current (User Selectable)	5/10/15/20/25/30/35/40/45/50A (default 40A)
Equalize Voltage (Flooded Battery)	15.5V
Equalize Charging Current	10% of Bulk Current Setting
Charging Control	2 stage / 3 stage selectable (Default 3 stage)
DC Output Bank	Single
Current draw from CH1 when not operating	= < 50mA
Battery Temperature Setting	Low/ Normal/ High (Battery Temperature Sensor Standard)
Efficiency	95%
<b>INPUT RATING (CH2 - MPPT SOLAR)</b>	
Input Voltage	14.5 - 45VOC
Maximum Solar Input	≤ 23V input, 500W (600W allowable) ≥ 37.5V-45V input, 750W (800W allowable)
<b>INPUT RATING (CH3 - START/ALTERNATOR)</b>	
Input Voltage	10.5 - 16VDC / 21 - 32VDC
<b>DIMENSIONS</b>	
Height x Width x Depth	242mm x 172mm x 74mm
Unit Weight	1.85 Kg
Shipping Weight	2.17 kg

**Note:** Specifications are subject to change without notice.

When the battery is charging through CH3 with normal operation (not through Ignition or override setting), the charger will charge for 3 minutes, it will then rest for 5 seconds to verify the Input voltage. During the 5 seconds rest period, if the measured voltage is >12.8Vdc, the unit will continue the charging cycle through CH3. If the measured voltage on CH3 is <12.8Vdc the unit will disconnect from the vehicle source and switch back to charge from CH2 (solar if installed) until the CH3 voltage returns to >13.2Vdc on a 12V System . Also, during the 3 minutes charging process, if the measured terminal voltage drops below <11.5V, the charger will start to derate the output current. This function is used to compensate for the use of long or thin wire between the Input Battery System and the unit input terminals. If the input voltage continues to drop below the <10.5V, the charging process will terminate and the unit will switch back to charge from CH2 (solar if installed) if installed. It will only switch back to CH3 if the CH3 voltage is >13.2V.