The Matson 10 Amp DC to DC charger is back!

The Matson 10 Amp DC to DC charger is back! This charger offers sophisticated 3 stage smart charging utilizing switch mode technology and designed to charge your storage/auxiliary battery using the vehicles 12V power source.

The 10 Amp DC to DC charger features...

Part Number: MA10DC

- Set and forget one set memory function
- 10 Amp output, 12 Volt input
- Three stage smart charging
- IP65 rated resistant to dust, splash and rain
- Suitable for GEL, Lead Acid or Calcium chemistry batteries (Selectable)
- LEDs indicate charging status and selected chemistry
- Electronic touch-button selection
- Ease of installation
- Low voltage cutout @ 12.8 Volt
- Short circuit and reverse polarity protected





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WHY A DC TO DC CHARGER?

This charger conquers the disadvantage of a traditional VSR system that can struggle to fully charge an auxiliary battery. A VSR system operates as a smart switching device, however a DC to DC charging system still offers the smart switching technology coupled with microprocessor controlled boost charging. This advancement in technology will ensure your auxiliary battery can now be charged using smart charging technology coupled with the traditional VSR switching systems.

This more advanced battery management program ensures the following,

- your auxiliary battery will be recharged fully
- the 3 stage smart charging will ensure safe charging algorithms are used guaranteeing longer battery life and more usable power
- traditional "voltage drop" suffered over long cable lengths between cranking and auxiliary batteries is a thing of
 the past. The DC to DC charger boosts the alternator supply voltage to ensure optimal charging of the auxiliary
 battery
- the inbuilt smart management of the DC to DC charger will ensure your cranking battery is protected from overdraw and left with enough power to start the vehicle

FEATURES

- This charger range has been built tough for Australian conditions. Rated at IP65, the charger is resistant to dust and is splash/rain proof
- · Short circuit and reverse polarity protected
- · Microchip monitoring, management and control
- · Electronic touch-button selection
- · Inbuilt overheating protection
- Can be used with either Fixed or Variable voltage alternators (with outputs above 12.8 Volts)
- Electronically protected against user error, the charger will not damage vehicle electronics
- Charger will automatically reduce current (amps) as required to optimise battery charging
- Three (3) Stage smart charging which comprises of BOOST, ABSORPTION and FLOAT ensures simple yet optimal charging
- Designed to boost the low voltage found at the end of long cable lengths to a useable level so your Auxiliary battery can be recharged to 100%.
- This charger is micro-processor controlled to protect against overcharging the auxiliary battery and ensures the donor battery is not discharged below 12.8 volts. This will ensure the donor battery is left with enough voltage to start the vehicle
- Chemistry selectable: select the appropriate setting to match the specific chemistry of your auxiliary battery. GEL, Calcium or AGM/DeepCycle/SLA. This feature, unlike other units on the market, allows you to change chemistries at the push of a button. Once selected, the charger remembers the chemistry selected, no matter what happens, until you select a different chemistry
- The charger has been designed to recommence charging from float mode when a load is placed on the auxiliary battery. i.e. if auxiliary battery is fully charged and the charger is in float mode, the charger will recommence it's charging cycle automatically when the auxiliary battery is used again

| Model No | MA10DC | | | |
|--|--|---------|------------------------|--|
| Туре | 3 Stage pulse charge | | | |
| Input | 12.8V to 16V DC | | | |
| Low Voltage Cutout | 12.8 Volt | | | |
| Output Current | 10 Amp | | | |
| Output Voltage | GEL | CALCIUM | AGM/Deep Cycle/VRLA | |
| Absorption | 14.3V | 15.3V | 14.7V | |
| Fully Charged (Float Charge) | 13.3V | 13.7V | 13.7V | |
| Soft Start | Yes - (Gradual ramp up of charger output) | | | |
| Equalization | Automatic - (Charger will commence this process at start up) | | | |
| Max Output Power | 120W | | | |
| Minimum Start Voltage (Auxiliary Battery) | 1.5V | | | |
| Float Mode Current Draw | <10mA | | | |
| Ambient Temperature | -15C to +50C | | | |
| Battery Range | | | | |
| Deep Cycle | 18 ~ 250AH | | | |
| Automotive | 150~1000CCA | | | |





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Charging the Future DC to DC

Announcing the arrival of the new more advanced 20 amp and 20 amp range of DC to DC chargers with solar input. This charger range offers sophisticated 3 stage smart charging, utilizing switch mode technology and designed to charge your storage/auxiliary battery using the vehicles 12V power source.

The DC to DC range features...

- Set and forget one set memory function
- 20 Amp output, 12 Volt input
- Three stage smart charging
- IP65 rated resistant to dust, splash and rain
- Suitable for GEL, Lead Acid or Calcium chemistry batteries (Selectable)
- LEDs indicate charging status and selected chemistry
- Electronic touch-button selection
- Ease of installation
- Low voltage cutout @ 12.2 Volt
- Short circuit and reverse polarity protected
- Overheating protection and cutout
- Microprocessor control and management
- (MA20DCS only) Solar charging input.
 Charger will act as a regulator. i.e:
 connected solar panels are NOT to be regulated



MA20DC





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WHY A DC TO DC CHARGER

This charger conquers the disadvantage of a traditional VSR system that can struggle to fully charge an auxiliary battery. A VSR system operates as a smart switching device, however a DC to DC charging system still offers the smart switching technology coupled with microprocessor controlled boost charging. This advancement in technology will ensure your auxiliary battery can now be charged using smart charging technology coupled with the traditional VSR switching systems.

This more advanced battery management program ensures the following,

- your auxiliary battery will be recharged fully
- the 3 stage smart charging will ensure safe charging algorithms are used guaranteeing longer battery life and more usable power
- traditional "voltage drop" suffered over long cable lengths between cranking and auxiliary batteries is a thing of the past. The DC to DC charger boosts the alternator supply voltage to ensure optimal charging of the auxiliary battery

Model No

 the inbuilt smart management of the DC to DC charger will ensure your cranking battery is protected from overdraw and left with enough power to start the vehicle

FEATURES

- This charger range has been built tough for Australian conditions. Rated at IP65, the charger is resistant to dust and is splash/rain proof
- · Short circuit and reverse polarity protected
- Microchip monitoring, management and control
- · Electronic touch-button selection
- · Inbuilt overheating protection
- Can be used with either Fixed or Variable voltage alternators (with outputs above 12.2 Volts)
- Electronically protected against user error, the charger will not damage vehicle electronics
- Charger will automatically reduce current (amps) as required to optimise battery charging
- Three (3) Stage smart charging which comprises of BOOST, ABSORPTION and FLOAT ensures simple yet optimal charging
- Designed to boost the low voltage found at the end of long cable lengths to a useable level so your Auxiliary battery can be recharged to 100%.
- This charger is micro-processor controlled to protect against overcharging the auxiliary battery and ensures the donor battery is not discharged below 12.2 volts. This will ensure the donor battery is left with enough voltage to start the vehicle
- Chemistry selectable: select the appropriate setting to match
 the specific chemistry of your auxiliary battery. GEL, Calcium
 or AGM/DeepCycle/SLA. This feature, unlike other units on
 the market, allows you to change chemistries at the push of a
 button. Once selected, the charger remembers the chemistry
 selected, no matter what happens, until you select a different
 chemistry
- The charger has been designed to recommence charging from float mode when a load is placed on the auxiliary battery.
 i.e. if auxiliary battery is fully charged and the charger is in float mode, the charger will recommence it's charging cycle automatically when the auxiliary battery is used again

| Model No | WIAZUDG & WIAZUDGS | | | |
|--|--|---------|------------------------|--|
| Туре | 3 Stage pulse charge | | | |
| Input | 12.2V to 16V DC | | | |
| Low Voltage Cutout | 12.2 Volt | | | |
| Output Current | 20 Amp | | | |
| Output Voltage | GEL | CALCIUM | AGM/Deep Cycle/VRLA | |
| Absorption | 14.3V | 15.6V | 14.7V | |
| Fully Charged (Float Charge) | 13.3V | 13.8V | 13.8V | |
| Reverse Polarity Protection | 40A (Fuse supplied) | | | |
| Solar Panel Reverse Polarity Protection | 20A (Fuse Supplied) - MA20DCS ONLY | | | |
| Recommended Solar Panel (min) | 10 - 500 Watts unregulated Input: 9.0 to 30.0 Volts DC | | | |
| Soft Start | Yes - (Gradual ramp up of charger output) | | | |
| Equalization | Automatic - (Charger will commence this process at start up) | | | |
| Max Output Power | 250W | | | |
| Minimum Start Voltage (Auxiliary Battery) | 1.5V | | | |
| Float Mode Current Draw | <10mA | | | |
| Ambient Temperature | -15C to +50C | | | |
| Dimensions | 150x160x53mm (LxWxH) | | | |
| Battery Range | | | | |
| Deep Cycle | 18 ~ 250AH | | | |
| Automotive | 150~1000C | CA | | |

MAZODC & MAZODCS







