

Abso DC - DC Chargers

In-Vehicle
Optimal
Charge and
Maintenance
for Auxiliary
Batteries

KISAE DC to DC Chargers allow you to charge your household battery bank from a solar panel or from your engine battery – no need to wait until you connect to the grid. They provide dual input MPPT Solar input and Auxiliary battery input with maintenance-free protection for your batteries and solar panels. Smart, multi-stage charging ensures your batteries are charged the way the manufacturers recommend, resulting in maximized battery life. Compact design and small product footprint mean these chargers can be installed in tight areas. Easy-access connectors make installation a snap.

Product Features include:

Microprocessor controlled multi-stage charging algorithms: (Bulk, Absorption, Float) for Gel, AGM and Flooded batteries with equalization for Flooded batteries.
MPPT solar regulator provides maximum power from solar panels to battery.

Silent Mode for quiet operation.

Optional Remote for viewing system information and advanced program settings.



Abso DC - DC Chargers

Optimal Charge and Maintenance

Wall Mountable

Commercial / Leisure Use



| Abso DC - DC Battery Charger | DMT 1230 | DMT 1250 |
|------------------------------|----------|----------|
|------------------------------|----------|----------|

DC Controller Output (Battery)

| | | |
|--------------------------|--|--|
| Output Current (Maximum) | 30A | 50A |
| Output Voltage Range: | | |
| Charge | 13.5 - 15.5V | 13.5 - 15.5V |
| Float | 13.0 - 13.8V | 13.0 - 13.8V |
| Equalize | 15.5V | 15.5V |
| Charging Control | 5 stages (Test/Bulk/Absorption/Float/Recharge) | 5 stages (Test/Bulk/Absorption/Float/Recharge) |
| DC Output Bank | One | One |
| Selectable Battery Type | Gel, AGM, Flooded, Lithium, Program | Gel, AGM, Flooded, Lithium, Program |
| Parasitic Current | < 10 uA | < 10 uA |
| Efficiency | > 90% | > 90% |

DC Input (Battery/Alternator)

| | | |
|----------------------------|--|--|
| DC Input Range | 10.5 - 32Vdc | 10.5 - 32Vdc |
| DC Input Nominal Operation | 12.8V for 12V charging system 25.6V for 24V charging system | 12.8V for 12V charging system 25.6V for 24V charging system |
| Engine Start Control: ON | DC input from Battery/Alternator | DC input from Battery/Alternator |
| Engine Start Control: OFF | DC input from PV input (if available) | DC input from PV input (if available) |

DC Input (PV Input)

| | | |
|----------------------------|--|--|
| DC Input Range | 10 - 45 Vdc | 10 - 45 Vdc |
| DC Input Nominal Operation | 17.5Vdc for 12V PV panels connected in parallel 35.0Vdc for dual 12V PV panel connected in series | 17.5Vdc for 12V PV panels connected in parallel 35.0Vdc for dual 12V PV panel connected in series |
| MPPT Tracking Efficiency | > 98% (Target) | > 98% (Target) |

DC Output Protection and Features

| | | |
|-------------------------|----------------------------|----------------------------|
| Reverse Battery | Yes (shutdown), Auto Reset | Yes (shutdown), Auto Reset |
| DC Output Short Circuit | Yes (shutdown), Auto Reset | Yes (shutdown), Auto Reset |
| Over Charge | Yes (shutdown), Auto Reset | Yes (shutdown), Auto Reset |
| Cooling | Force air ventilation | Force air ventilation |

Display Panel

| | | |
|-----------------|---|---|
| Display | LED Display with back lighting | LED Display with back lighting |
| Digital Display | Voltage, Current, status and Error Code | Voltage, Current, status and Error Code |

Accessory (Optional)

| | |
|----------------------------|--|
| Remote Panel | For viewing unit status and adjusting settings |
| Battery Temperature Sensor | For battery charging voltage adjustment |