

MEC Battery Chargers

Direct communication. Speedy prototyping.
Customized for your applications since 1989.

Output Power

40 to 1,500 Watt

for LITHIUM-based Batteries



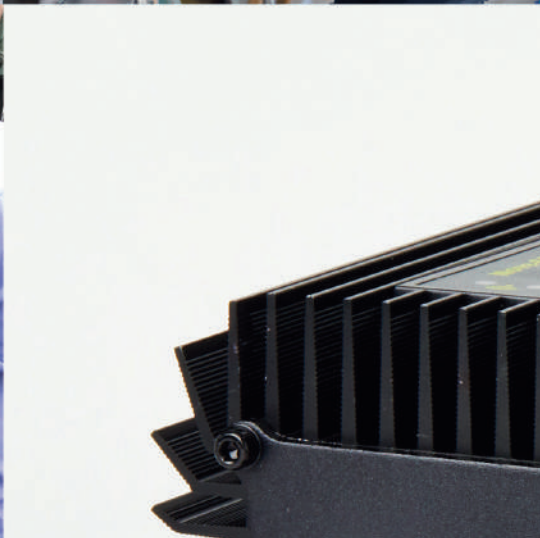
Waterproof



Convection-cooled



Fan-cooled



“ Perseverance, paired with
a forward-looking mindset, is a source
of strength to make things happen. ”

Wilfried Steger

Founder and Managing Director






Lithium-based Battery Chargers

Output Power

40 to 1,500 Watt

Customized for your applications
with configurable parameters

Product Type	Product Series	Nominal Charge Current for Li-ion Batteries 3.6V/Cell (nom.)			
		4S	7S	10S	14S
Convection-cooled					
	MCC-40	-	-	-	-
	NOVA-40C	3.5A	2A	-	-
	NOVA-60C	3.5A	2A	-	-
Fan-cooled					
	NOVA-150F	9A	5A	-	-
	NOVA-300F	18A	10A	7A	5A
	NOVA-360F	20A	12A	8A	6A
	NOVA-650F	-	22A	15A	11A
	NOVA-1000F	-	30A	21A	15A
	NOVA-1200F	-	40A	28A	20A
	NOVA-1500F	-	50A	35A	25A
Waterproof IP65/IP68					
	NOVA-100	7A	4A	2.5A	2A
	ATLAS-300	20A	10A	7A	5A
	ATLAS-500	-	17A	11A	9A
	ATLAS-650	-	22A	15A	11A
	ATLAS-750	-	25A	17A	13A

*We manufacture quality products.
We do responsible ODM / OEM.*

Nominal Charge Current for LiFePO4 Batteries 3.2V/Cell (nom.)					Optional Features			Page
4S	8S	12S	14S	16S	CAN-Bus	Ignition Lock	Selectable Charge Profiles	
2.2A	-	-	-	-	-	-	✓	04
-	-	-	-	-	-	-	-	05
-	-	-	-	-	-	-	-	06
10A	7A	-	-	-	-	-	-	08
20A	10A	7A	6A	5A	-	✓	✓	09
25A	12A	8A	7A	5A	-	✓	✓	10
-	22A	15A	13A	11A	✓	✓	✓	11
-	30A	20A	18A	16A	✓	✓	✓	12
-	40A	27A	24A	20A	✓	✓	✓	13
-	50A	35A	30A	25A	✓	✓	✓	14
7A	4A	2.5A	2.2A	2A	-	-	-	16
20A	10A	7A	6A	5A	✓	✓	✓	17
-	17A	11A	10A	9A	✓	✓	✓	18
-	23A	15A	13A	11A	✓	✓	✓	19
-	25A	17A	15A	13A	✓	✓	✓	20

Convection-cooled

Guaranteed soundless operation with no vibrations.
Power efficiency is better maintained.





Convection-cooled

MCC-40

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	-	-	-		2.2A	-	-	-	-

Power Output / Efficiency	max. 32W, >89%
Mains Voltage Mains Pins	100 - 240VAC / 50 - 60Hz country specific
Operating Temperature	-10°C to +40°C
WxDxH / Weight	180x100x53mm / 700g
Charge Cord	1.2m with 12mm charge plug
Accessories	cord with alligator clamps
Ingress Protection Rating	IP20
Agency Approval	CE

Shock / Vibration-proof, Condensation-proof

Convenient daily necessity with
smart LCD display

3 Charge Modes: Universal, Recovery, Maintenance

- Universal mode for charging batteries of unknown type
- Recovery mode for deep-discharged batteries
- Maintenance mode for idle storage

Battery Temperature Monitoring

Help maintain long battery life with
auto charge-voltage adjustment

5 Selectable Battery Types

- GEL, AGM, WET
- LiFePO4
- Universal Mode

**Motorized Sport Equipment, Winter Storage Battery
Maintenance, Gardening Tools**



Convection-cooled

NOVA-40C

Nominal Charge Current for Li-based Batteries

Li-ion				LiFePO4				
4S	7S	10S	14S	4S	8S	12S	14S	16S
3.5A	2A	-	-	-	-	-	-	-

Handy, Portable Plug-Top Charger

Economic solution for small to medium sized batteries

Auto-Detect

Start fresh the charge cycle at certain pre-set days or voltage level

Definitely Safe

Protection against short circuit, overload, reverse polarity, over temp.

Optional Features

Customized Charge Profiles

Power Output	max. 40W
Efficiency	>85%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-10°C to +40°C
WxDxH / Weight	65x106x46mm / 290g
Charge Cord	1.2m, standard open ends
End Terminals	Ring Terminals / as per request
Ingress Protection Rating	IP20
Agency Approval	CE

e-Bikes, Motorbikes, Sport Gears, Gardening Tools, Farming Tools, Battery Maintenance and Assurance of Readiness



Convection-cooled

NOVA-60C

Nominal Charge Current for Li-based Batteries

Li-ion				LiFePO4				
4S	7S	10S	14S	4S	8S	12S	14S	16S
3.5A	2A	-	-	-	-	-	-	-

Power Output	max. 60W
Efficiency	>85% @ 230VAC
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-20°C to +40°C
WxDxH / Weight	134.5x59x33.5mm / 325g
Charge Cord	1.2m, standard open ends
End Terminals	as per request
Ingress Protection Rating	IP40
Agency Approval	CE

Handy, Portable Charger

Economic solution for small to medium sized batteries

Auto-Detect

Start fresh the charge cycle at certain pre-set days or voltage level

Definitely Safe

Protection against short circuit, overload, reverse polarity, over temp.

Optional Features

Customized Charge Profiles

e-Bikes, Motorbikes, Sport Gears, Gardening Tools, Farming Tools



Fan-cooled

Extremely quiet load- / temperature-controlled fan-cooled mechanism; making it fit for even wheelchair on charge in a calm living room.



Fan-cooled

NOVA-150F

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
9A	5A	-	-		10A	7A	-	-	-

Power Output / Efficiency	max. 150W / >87%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	0°C to +40°C
WxDxH / Weight	110x180x36mm / 800g
Charge Cord	1.2m, standard open ends
End Terminals	Ring Terminals / as per request
Ingress Protection Rating	IP20
Agency Approval	CE

Lightweight yet Powerful

Weigh only at 800g, the light compact box is brimming with power (max. 150W)

Compact and Quiet

Load-controlled fan-cooled mechanism, fit for wheelchair in a quiet living room

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- Ignition Lock
- Detachable Wall-Mount Brackets

**Wheelchairs, e-Bikes, Sport Gears, Motorbikes,
Forklifts, Farming Tools, Boats, Yachts**



Fan-cooled

NOVA-300F

Nominal Charge Current for Li-based Batteries

Li-ion				LiFePO4				
4S	7S	10S	14S	4S	8S	12S	14S	16S
18A	10A	7A	5A	20A	10A	7A	6A	5A

Power Output / Efficiency	max. 300W / 92.5%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-20°C to +40°C
WxDxH / Weight	110x180x42mm / 800g
Charge Cord	1.2m, standard open ends
End Terminals	Ring Terminals / as per request
Ingress Protection Rating	IP20
Agency Approval	CE

Lightweight yet Powerful

Weigh only at 800g, the light compact box is brimming with power (max. 300W)

Compact and Quiet

Load-controlled fan-cooled mechanism, fit for wheelchair in a quiet living room

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- Ignition Lock
- Detachable Wall-Mount Brackets

**Wheelchairs, e-Bikes, Sport Gears, Motorbikes,
Caravans, Hydraulic Lifts, Farming Tools,
Boats, Yachts**



Fan-cooled

NOVA-360F

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
20A	12A	8A	6A		25A	12A	8A	7A	5A

Power Output / Efficiency	max. 360W / >89%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-20°C to +40°C
WxDxH / Weight	158x235x67mm / 2.3kg
Charge Cord	1.2m, standard open ends
End Terminals	as per request
Ingress Protection Rating	IP20
Agency Approval	CE

Lightweight yet Powerful

Weigh only at 2.3kg, the light compact box is brimming with power (max. 360W)

Compact and Quiet

Extremely quiet load-controlled fan-cooled mechanism; quick response to charge requests

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- Ignition Lock
- Detachable Wall-Mount Brackets

**Wheelchairs, e-Bikes, Sport Gears, Motorbikes,
Caravans, Hydraulic Lifts, Farming Tools,
Boats, Yachts**



Fan-cooled

NOVA-650F

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	22A	15A	11A		-	22A	15A	13A	11A

Lightweight yet Powerful

Weigh only at 2.5kg, the light compact box is brimming with power (max. 650W)

Compact and Quiet

Extremely quiet load-controlled fan-cooled mechanism; quick response to change requests

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display

Power Output / Efficiency	max. 650W / >92%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-20°C to +40°C
WxDxH / Weight	158x235x67mm / 2.5kg
Charge Cord	standard open ends
End Terminals	as per request
Ingress Protection Rating	IP20
Agency Approval	CE

**Motorbikes, Caravans, Hydraulic Lifts,
Farming Tools, Boats, Yachts**



Fan-cooled

NOVA-1000F

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	30A	21A	15A		-	30A	20A	18A	16A

Power Output / Efficiency	max. 1,000W / >92%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-20°C to +40°C
WxDxH / Weight	180.5x238x84mm / 2.5kg
Charge Cord	standard open ends
End Terminals	as per request
Ingress Protection Rating	IP20
Agency Approval	CE

Work Horse for Large Batteries

Weigh only at 2.5kg, the light compact box is brimming with power (max. 1,000W)

Compact and Quiet

Extremely quiet load-controlled fan-cooled mechanism; quick response to charge requests

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display
- Detachable Brackets

**Caravans, Hydraulic Lifts, Scissors Lifts,
Farming Tools, Boats, Yachts**



Fan-cooled

NOVA-1200F

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	40A	28A	20A		-	40A	27A	24A	20A

Power Output / Efficiency max. 1,200W / >92%

Mains Voltage 100 - 240VAC / 50 - 60Hz
Mains Pins country specific

Operating Temperature -20°C to +40°C

WxDxH / Weight 190x360x85mm / 4.5kg

Charge Cord standard open ends

End Terminals as per request

Ingress Protection Rating IP20

Agency Approval CE

Work Horse for Large Batteries

Weigh only at 4.5kg, the light compact box is brimming with power (max. 1,200W)

Compact and Quiet

- Extremely quiet load-controlled fan-cooled mechanism
- Quick & economical response to change requests, for both hard- & soft-ware

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display
- Detachable Wall-Mount Brackets

**Caravans, Industrial Machines, Farming Tools,
Boats, Yachts**



Fan-cooled

NOVA-1500F

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	50A	35A	25A		-	50A	35A	30A	25A

Power Output / Efficiency	max. 1,500W / >92%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-20°C to +40°C
WxDxH / Weight	287x226x86.7mm / 4.5kg
Charge Cord	standard open ends
End Terminals	as per request
Ingress Protection Rating	IP20
Agency Approval	CE

Work Horse for Large Batteries

Weigh only at 4.5kg, the light compact box is brimming with power (max. 1,500W)

Compact and Quiet

- Extremely quiet load-controlled fan-cooled mechanism
- Quick & economical response to change requests, for both hard- & soft-ware

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

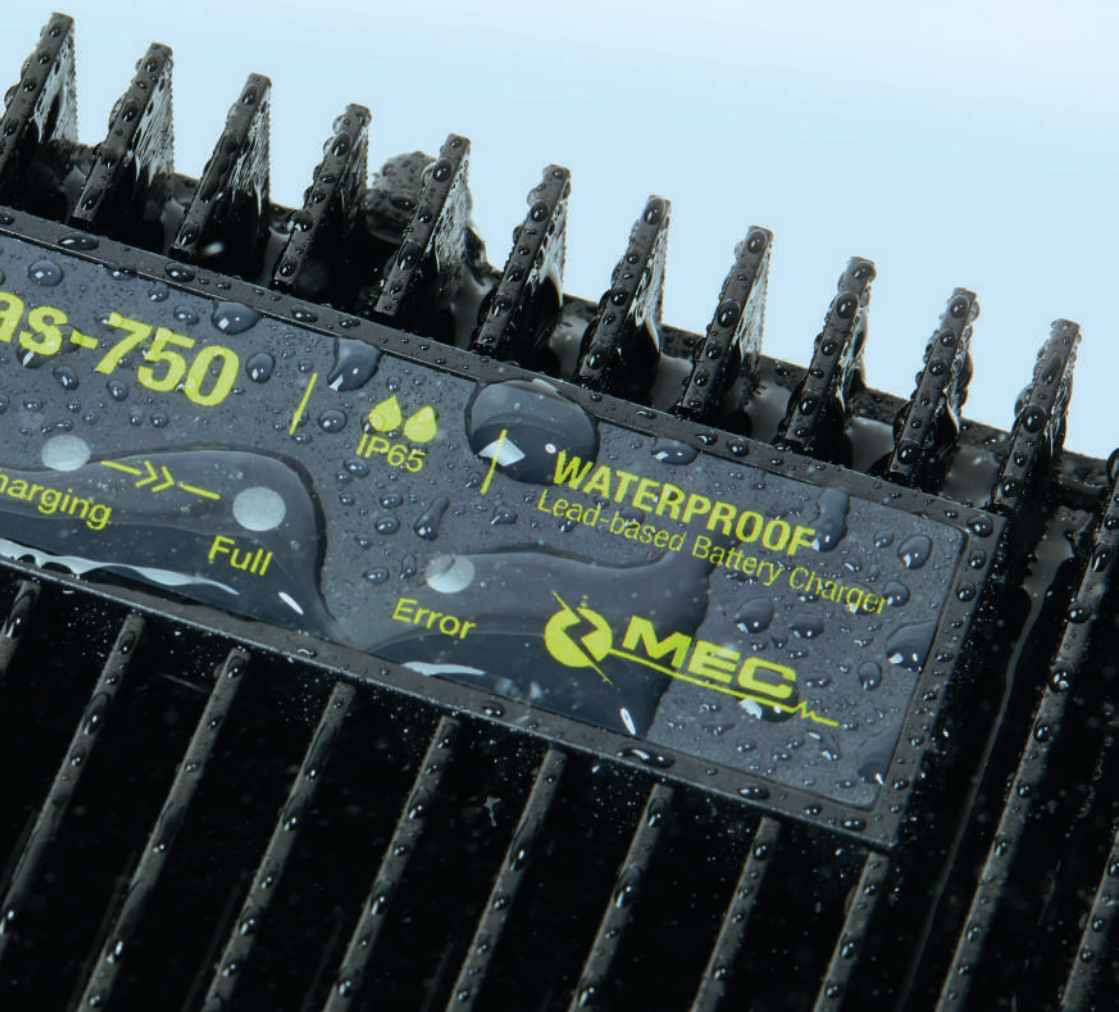
Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display
- Detachable Wall-Mount Brackets

**Caravans, Industrial Machines, Farming Tools,
Boats, Yachts**

IP65 to IP68 Waterproof

Designed for marine platforms, the advanced power electronics works well under the rain / water splashes.





Waterproof

NOVA-100

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
7A	4A	2.5A	2A		7A	4A	2.5A	2.2A	2A

Power Output / Efficiency	max. 100W / >89%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-30°C to +40°C
WxDxH / Weight	85x175x45mm / 850g
Charge Cord	1.2m, standard open ends
End Terminals	as per request
Ingress Protection Rating	IP68
Agency Approval	CE

IP68, Shock / Vibration-proof, Condensation-proof

Built for the demanding outdoor adventures with smart LED display

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- Retractable Steel Bracket

**e-Bikes, Motorbikes, Farming Tools,
Boats, Yachts**



Waterproof

ATLAS-300

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
20A	10A	7A	5A		20A	10A	7A	6A	5A

Power Output / Efficiency

max. 300W / >92%

Mains Voltage

100 - 240VAC / 50 - 60Hz

Mains Pins

country specific

Operating Temperature

-30°C to +40°C

WxDxH / Weight

207x196x70mm / 3.15kg

Charge Cord

1.2m, standard open ends

End Terminals

as per request

Ingress Protection Rating

IP65

Agency Approval

CE

IP65, Shock / Vibration-proof, Condensation-proof

Built for the mariner, the industry and the tough environment

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display

**Caravans, Floor Scrubbing Machines,
Hydraulic Lifts, Farming Tools, Boats, Yachts**



Waterproof

ATLAS-500

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	17A	11A	9A		-	17A	11A	10A	9A

Power Output / Efficiency	max. 500W / >92%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-30°C to +40°C @ 100VAC
WxDxH / Weight	237x196x70.5mm / 4.0kg
Charge Cord	1.2m, standard open ends
End Terminals	as per request
Ingress Protection Rating	IP65
Agency Approval	CE

IP65, Shock / Vibration-proof, Condensation-proof

Built for the mariner, the industry and the tough environment

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display

**Caravans, Floor Scrubbing Machines, Hydraulic Lifts,
Farming Tools, Boats, Yachts**



Waterproof

ATLAS-650

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	22A	15A	11A		-	23A	15A	13A	11A

Power Output / Efficiency	max. 650W / >92%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-30°C to +40°C
WxDxH / Weight	232.4x200x86.6mm / 4.0kg
Charge Cord	1.2m, standard open ends
End Terminals	as per request
Ingress Protection Rating	IP65
Agency Approval	CE

IP65, Shock / Vibration-proof, Condensation-proof

Built for the mariner, the industry and the tough environment

Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display

**Caravans, Floor Scrubbing Machines, Hydraulic Lifts,
Farming Tools, Boats, Yachts**



Waterproof

ATLAS-750

Nominal Charge Current for Li-based Batteries

Li-ion					LiFePO4				
4S	7S	10S	14S		4S	8S	12S	14S	16S
-	25A	17A	13A		-	25A	17A	15A	13A

Power Output / Efficiency	max. 750W / >92%
Mains Voltage	100 - 240VAC / 50 - 60Hz
Mains Pins	country specific
Operating Temperature	-30°C to +40°C
WxDxH / Weight	217x225x105mm / 4.8kg
Charge Cord	1.2m, standard open ends
End Terminals	as per request
Ingress Protection Rating	IP65
Agency Approval	CE

IP65, Shock / Vibration-proof, Condensation-proof

Built for the mariner, the industry and the tough environment

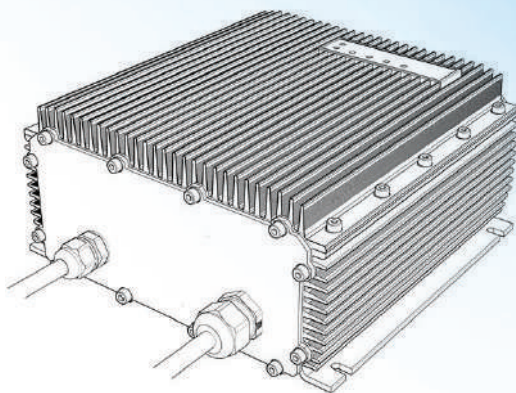
Auto-Detect

- Start fresh the charge cycle at certain pre-set days or voltage level
- Auto sending out of programmed "wake-up pluses"

Optional Features

- Customized Charge Profiles
- CAN-Bus
- Ignition Lock
- Dry Relay
- Remote Display

**Caravans, Hydraulic Lifts, Floor Scrubbing Machines,
Farming Tools, Boats, Yachts**



Product Features

MEC chargers come with universal mains (100 - 240VAC / 50 - 60Hz) respond quick to request for changes and are designed to perform well even under extreme conditions (from -30°C to +40°C). Feature highlights as follows:



IP65/68 Waterproof

Specially designed for marine platforms, the advanced power electronics works well under the rain / water splashes.



Shock / Vibration-proof, Condensation-proof

Stable performance with shock / vibration-proof; best for industrial usage. Optional pressure vent prevents condensation.



Convection- / Fan-cooled with Temperature Sensor (Optional)

Extremely quiet self-cooled load- / temperature-controlled mechanism prevents overheat; auto charge-voltage adjustment helps maintain long battery life.



Customized Charge Profiles, CAN-Bus (Optional)

Parameters can be set precisely to fit specific requirements; if in need, customized charge profiles available off-the-shelf, for uploading via the integrated data port.



3 Charging Modes

General Mode, Deep Discharge Recovery Mode attempts to revive a “dead” battery & Maintenance Mode for batteries in winter storage.



Wide Range of Output Power

From 40W to 1,500W; or talk to our experts for the desired output power.



Auto-detect

Start fresh the charge cycle at certain pre-set days or voltage level; programmed “wake-up pluses” for batteries in sleeping mode.



Definitely Safe

Equipped with short circuit, overload and reverse polarity protection; optional ignition-lock to prevent starting up the vehicles / machines while charging in process.



Customized Terminals / Charge Cords, Localized Pins

Enclosures come with specified battery-pole terminals; optional dry-relay-contact. Charge cords at your desired length with applicable AC-pins (EU, US, AU or UK).



Handy, Portable, Perfect Travel Companion

As light as 290g, a perfect travel-mate for both lithium- / lead-based batteries.



Chic Appearance

Smart LED / LCD display. Optional Remote Display showing voltage and current, charged-in capacity and phase. Aluminum alloy enclosures. Retractable steel brackets. Optional detachable wall-mount racks.

**MEC battery chargers are thus widely applied,
a stable and reliable daily necessity.**



MEC-Energietechnik GmbH

MEC-Energietechnik GmbH or MEC, established in 2007 in Villach, Austria, originated from Mengling Power Electronic (Dong Guan) Co. Ltd. in China since 1989. We established subsequent foothold in Hong Kong in 1999 which serves as a major sourcing and transit hub. MEC aims at providing quality, best-in-value, and timely ODM/OEM products for clients worldwide.



Hong Kong, China - Asia Pacific Hub

Office in Hong Kong plays a key role in taking care clients from the Asia Pacific region.

Villach, Austria - Headquarters

Core team of experienced engineers in Austria leads MEC's R&D arm, ensuring products of our own label cater the latest market and technological needs.



Dong Guan, China - All-rounded Production Line

Our self-operating ISO 9001:2015 certified factory located in Dong Guan, China, offers one-stop, customized power solutions pinpointing specific needs.





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