

WP-MCC series

Battery charger function DC/DC converter

Voltage Conversion • 3-step charger • Dimmerfunction



Datasheet



MCC Series

Multi Purpose Adjustable Charge Converter

MCC-24/12-05 • MCC 24/12-20

The MCC multi purpose adjustable charge DC/DC converters with common ground for easy installation and reduction of cable and cable length size for use with 12V equipment on a 24V board system. The converter is designed to operate as battery charger from your 24V battery bank and at the same time power your 12V equipment from the 24V electrical system. In case the main battery bank is charged, automatically the 12V battery bank will be charged. WhisperPower offers the MCC series with charge algorithm with temperature sensor and dimmer functionality. The MCC is the best in class all round converter with an excellent price performance ratio. WhisperPower the best in class power!

- 24 V input, 12V output step down conversion, for use of your 12V equipment from 24V batteries.
- 12V 3-step charge algorithm and temperature compensation.
- 12V voltage stabilization and light dimmer.
- Controllable by remote switch.



green energy solutions



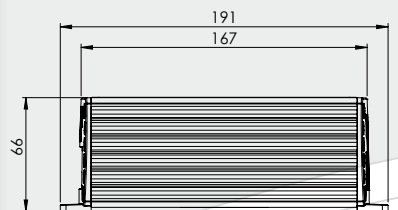
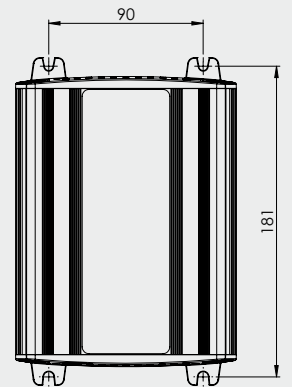
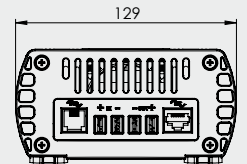
green energy solutions



Model DC/DC Article no.	MCC 24/12-5 60110016	MCC 24/12-20 60110015
Converter type	step down and voltage stabilizing 3-step 12V battery charger	step down and voltage stabilizing 3-step 12V battery charger light dimmer function
Input		
Nominal input voltage	24VDC	24VDC
Input range, three step charge mode	24..32VDC	24..32VDC
Input range, full output specifications	18..35VDC	18..35VDC
Input range, no defects	0..35VDC	0..35VDC
Lower input setpoint, adjustable by software	20.0VDC	20.0VDC
Delay lower inputsetpoint, adjustable by software	30 sec.	30 sec.
Output		
Nominal output voltage	13.6VDC	13.6VDC
Voltage adjustment	12..15VDC	12..15VDC
Charge voltage 3 step	14.40/13.80VDC	14.40/13.80VDC
Absorbtion time	1 hr	4 hr
Battery tempensor	none	yes, 50mv/cell/c
Output voltage dimmer	none	4.0..13.0VDC
Output accuracy	2%	2%
Output voltage ripple, peakpeak	1%	1%
Maximum output power / Continuous output power	75W / 70W	300W / 270W
Maximum output current	5A	20A
Continuous output current at 40°C	5A	20A
General		
Efficiency	>90%	>90%
No load consumption	<25mA	<30mA
Ambient operating temperature	-10°C .. +40°C, de-rating to +60°C	-10°C .. +40°C, de-rating to +60°C
Storage temperature	-25°C .. +85°C	-25°C .. +85°C
Operating humidity	95% max, non-condensing	95% max, non-condensing
Galvanic insulation	Common negative	Common negative
Cooling concept	Natural convection	Forced ventilation
Protections		
Overcurrent / short circuit	Limited by current sensing	Limited by current sensing
Over heat, shutdown	Limited power by temperature sensor	Limited power by temperature sensor
Options		
Dimmer fuction	none	yes, activated by dipswitch
Remote switch connection	none	yes, faston connection
Communication	none	WhisperConnect, prepared
Mechanical		
Connections input/output, Faston max wire	2,5..6mm ²	6mm ²
Enclosure Dimensions (H*W*D)	50x98x88mm	66x190x123
Weight	490 gr	955 gr
Protection class	IP20	IP20
Enclosure Material / Enclosure Colour	Alu, PA6 covers / Black RAL 9011	Alu, PA6 covers / RAL 9006, Black RAL 9011



WP-MCC 24/12-20



66

WhisperPower BV Kelvinlaan 82, 9207 JB Drachten, The Netherlands, Tel: +31 (0) 512 571 550, Fax: +31 (0) 512 571 599, info@whisperpower.com, www.whisperpower.com

Art. Nr.	Item
60201086	WPC-BTS Battery Temperature Sensor
60201201	1,5 mtr Temperature Sensor
60201202	6 mtr Temperature Sensor



WP-MCC
Adjustable charge
DC-DC converter



04032013datasheetWP-MCC