PRODUCT CATALOGUE · DC-DC POWER

Micropower DC-DC converters

DC-DC converters · isolated and non-isolated · DC-DC chargers · equalizers · defence versions

Micropower DC-DC converters from MK-Controls Oy.



PRODUCT RANGE

Micropower DC-DC converters

DC-DC converters, chargers and equalizers from Micropower for industrial vehicles, AGVs and machines: compact IP21 units and sealed IP67 versions, isolated and non-isolated, for 12, 24, 48 and 80 V systems.

up to 96 %
efficiency

IP21 · IP67
compact and sealed versions

70 – 700 W
output power

Click **shop** next to a product to open it in our webshop, or **PDF** for the manufacturer's datasheet. Need a quote or a special version? **Request a quote**.

Micropower DC-DC converters from MK-Controls Oy. Prices, lead times and special versions on request.

01



Non-isolated DC-DC converters
Non-isolated

02



Isolated DC-DC converters
Isolated

03



DC-DC chargers
DC-DC charger

04



DC-DC equalizers
Equalizer

05



Defence (MIL) products
MIL

Contents

Choosing a DC-DC converter
01 Non-isolated DC-DC converters
02 Isolated DC-DC converters
03 DC-DC chargers
04 DC-DC equalizers
05 Defence (MIL) products

GUIDE

Choosing a DC-DC converter

Pick the converter by the voltage you have and the voltage your load needs, then by power and by whether the circuits must be isolated.

Which converter for my voltages?

Input voltage (DC)	12 V output	24 V output
9 – 16 V	200 W Charger	
9 – 36 V	200 W Converter	200 W Converter
10 – 16 V		700 W Converter
18 – 32 V	400 W Converter	200 W · 400 W Charger / Converter
18 – 36 V	70 W · 200 W · 400 W Converter	
24 V	Equalizer	
33 – 65 V	200 W · 400 W Converter	200 W · 400 W Converter
60 – 110 V	400 W Converter	400 W Converter

Rows = input voltage range of your supply, columns = the voltage your load needs. A filled cell shows the power classes available. Isolated types separate the two circuits galvanically; choose them for sensitive electronics, communication equipment and where the input and output ground must not be connected.

Converter, charger or equalizer?

Isolated converter

Input and output are separated galvanically. Use for sensitive electronics, communication and where grounds must not be linked.

Non-isolated converter

Smaller, cheaper and very efficient. Input and output share a common reference – fine for most vehicle loads.

DC-DC charger

Charges a second battery (for example an auxiliary 12 V battery) from the main battery with a proper charge characteristic.

Equalizer

Keeps the voltage balanced between series-connected batteries or taps a lower voltage from a higher one, at high current.

01

Non-isolated DC-DC converters

Non-isolated

Compact 24 V to 12 V converters for auxiliary loads such as lighting, fans and control electronics. Switching technology with efficiency up to 96 %; protected against reverse polarity, short circuit and overload. IP21 housing as standard, IP67 version for wet and dusty installations.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
18 – 36 V	12.5 V	70 – 400 W	IP21 · IP67

Non-isolated · IP21

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060367	24V/12V 70W	18-36	12.5	5	116×88×18	0.18	Faston 6.3	shop
0060368	24V/12V 200W	18-36	12.5	10	116×88×18	0.19	Faston 6.3	shop
0060363	24V/12V 400W	18-36	12.5	30	116×88×18	0.2	Faston 6.3	shop

Non-isolated · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060363IP	24V/12V 400W	18-36	12.5	30	150×93×31	0.82	Cable	shop

02

Isolated DC-DC converters

Isolated

Converters with full galvanic isolation between input and output, for wide or unregulated input voltages (9–36 V) and for 24, 48 and 80 V battery systems. IP21 and sealed IP67 versions.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
9 – 110 V	12 – 24 V	200 – 700 W	IP21 · IP67

Isolated · IP21

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060316	9-36V/12V 200W	9-36	12	16	116×88×18	0.2	Faston 6.3	shop
0060317	9-36V/24V 200W	9-36	24	8	116×88×18	0.2	Faston 6.3	shop
0060332	48V/12V 200W	33-65	12		116×88×18	0.2	Faston 6.3	shop
0060333	48V/24V 200W	33-65	24	8	116×88×18	0.2	Faston 6.3	shop

Isolated · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060316IP	9-36V/12V 200W	9-36	12	16	150×93×31	0.82	Cable	shop
0060317IP	9-36V/24V 200W	9-36	24	8	150×93×31	0.82	Cable	shop
HA2261-D10101-01	12V/24V 700W	10-16	24	24	150×93×39.5	1	Cable	PDF · shop
0060321IP	24V/12V 400W	18-32	12	32	150×93×31	0.82	Cable	shop
0060324IP	24V/24V 400W	18-32	24	16	150×93×31	0.82	Cable	shop
0060332IP	48V/12V 200W	33-65	12	16	150×93×31	0.82	Cable	shop
0060322IP	48V/12V 400W	33-65	12	32	150×93×31	0.82	Cable	shop
0060333IP	48V/24V 200W	33-65	24	8	150×93×31	0.82	Cable	shop
0060323IP	48V/24V 400W	33-65	24	16	150×93×31	0.82	Cable	shop
0060328IP	80V/12V 400W	60-110	12	33	150×93×31	0.82	Cable	shop
0060329IP	80V/24V 400W	60-110	24	18	150×93×31	0.82	Cable	shop

03

DC-DC chargers

DC-DC charger

Compact DC-DC chargers for 12 V and 24 V systems, charging an auxiliary battery from the vehicle supply. IP21 and IP67 versions.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
9 – 32 V	12 – 24 V	200 W	IP21 · IP67

DC-DC charger · IP21

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060380	12V/15A 200W	9-16	12	15	116×88×18	0.2	Faston 6.3	shop

DC-DC charger · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060380IP	12V/15A 200W	9-16	12	15	150×93×31	0.2	Cable	shop
0060381IP	24V/8A 200W	18-32	24	8	150×93×31	0.2	Cable	shop

04

DC-DC equalizers

Equalizer

Equalizers keep two 12 V batteries in a 24 V system in balance. Sealed IP67 housings.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
24 V	12 V		IP67

Equalizer · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	KG	DATA
JC1422-D10000	24V/12V 100A	24	12	100	0.8	shop

05

Defence (MIL) products

MIL

Converters, chargers and equalizers for military and defence applications, with NATO stock numbers where available.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
9 – 65 V	12 – 28 V	200 – 400 W	IP67

MIL · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	NSN	DATA
0060316MIL	9-36V/12V 200W	9-36	12	14	150×93×31	0.82	Cable		PDF · shop
0060317MIL	9-36V/24V 200W	9-36	24		150×93×31	0.82	Cable		PDF · shop
0060381BAE	24-24V 200W	18-32	24	8	150×95×31	0.82	Flying leads, 14AWG Red & Black 1600mm + 50mm - With Choke	6130-64-002-9590	shop
0060324MIL	24V/24V 400W	18-32	24	16	150×93×31	0.82	Cable		PDF · shop
0060363MIL	24V/12V 30A 400W	18-36	12	30	116×88×18	0.2	Faston 6.3	6130-64-000-6737	PDF · shop
0060370IP	24V/12V 30A	24	12	30					shop
0060323MIL	48V/24V 400W	33-65	28	16	116×88×18	0.82	Faston 6.3		PDF · shop

Ask us for prices, lead times and special versions.

Request a quote

mkcontrols.eu · sales@mkcontrols.eu

Micropower and the Micropower product names are trademarks of Micropower Group. Other trademarks belong to their respective owners. Specifications may change without notice; please confirm details when ordering.