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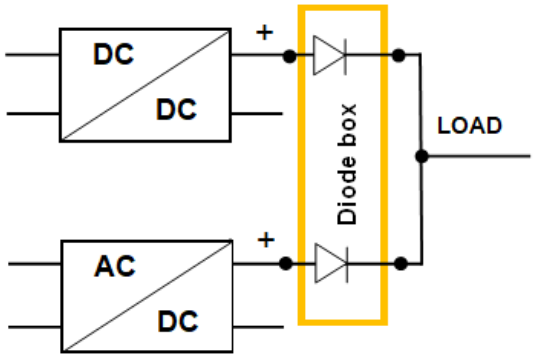
Series Diode boxes

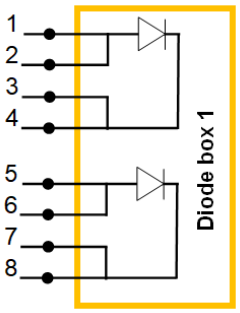
Series diode boxes

We have three diode boxes mechanics with different voltage and current ratings.
The purpose is either to keep the series diode heat losses outside the DC/DC converters or to include other voltage sources like AC/DC outputs into a distribution system or one or two batteries.

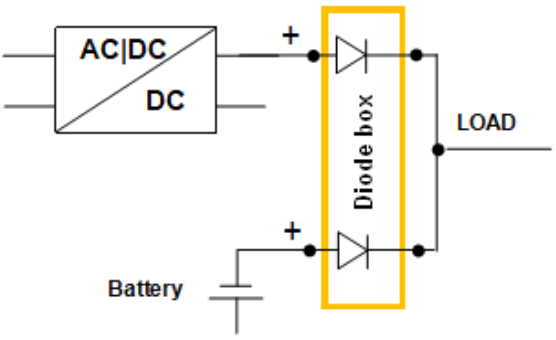
The Diode box 1&2 only provide connection for the diodes. Diode box 3 handles both polarities for easier connection. Thus using different polarity common rail.



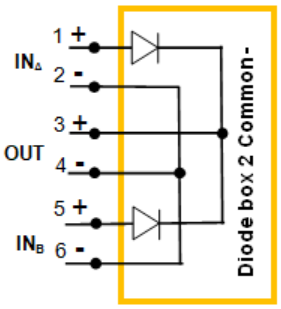
Two different input sources, where they either share the load or are in redundance.



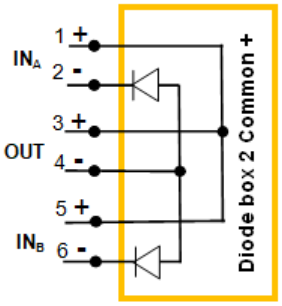
Diode box 1&2: 12 - 21 A



Two voltage sources to one load



Diode box 3, 24 V 35 A Common-



Diode box 3, 60 A 48 V Common +
For telecom system with -48 V station voltage.

Diodebox	30 V 17 A	24 V 21 A	24 V 35 A	48 V 60 A	28-110 V 14 A	90-250 V 12 A
Number of diodes	2	2	2	2	2	2
Box	Box 2	Box 1	Box 3 Com -	Box 3 Com +	Box 1	Box 1
Max rated Voltage	30 V	30 V	30 V	60 V	130 V	300 V
Max A per diode	17 A	21 A	35 A	60 A	14 A	12 A
Ambient temperature	-25 to +55°C	-25 to +55°C	-25 to +55°C	-25 to +55°C	-25 to +55°C	-25 to +55°C
Insulation to case	2.5 kVDC	2.5 kVDC	2.5 kVDC	2.5 kVDC	2.5 kVDC	2.5 kVDC
Dimension (mm)	48x106x157	48x106x189	58x227x194	58x227x194	48x106x189	48x106x189
Weight (kg)	0.41 kg	0.47 kg	1.9 kg	1.9 kg	0.47 kg	0.47 kg
Part number	803554	803550	803555	803553	803551	803552

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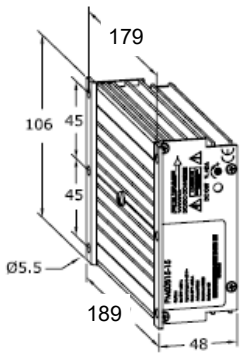
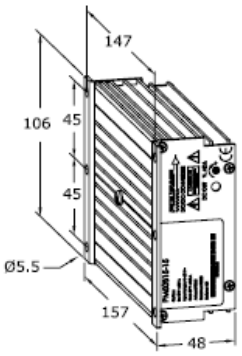
Series Diode boxes
Mechanics

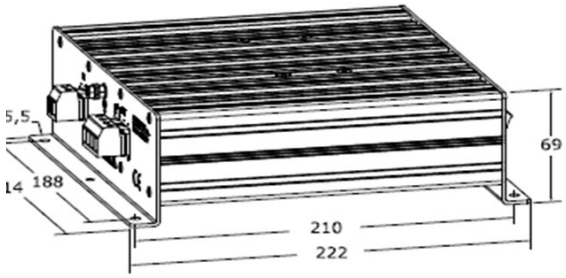
Part No	Rating	Mechanics
803550	2 X 24 V 21 A	**Diode box 1**
803551	2 X 110 V 14 A	**Diode box 1**
803552	2 X 220 V 12 A	**Diode box 1**
803553	2 X 48 V 60 A	**Diode box 3**
803554	2 X 24 V 17 A	**Diode box 2**
803555	2 X 24 V 17 A	**Diode box 3**



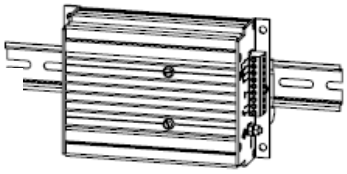
Diode box 1, dimensions in mm



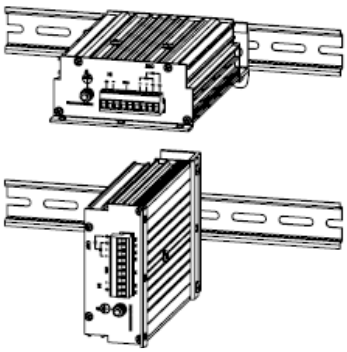
Diode box 2



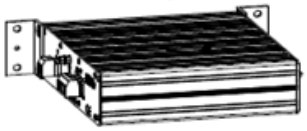
Diode box 3, dimensions in mm



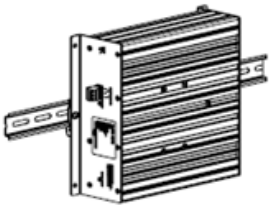
Standard including DIN rail clips



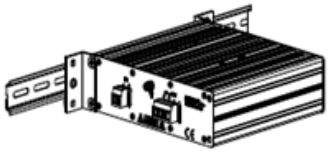
Optional L60-1 including DIN rail clips



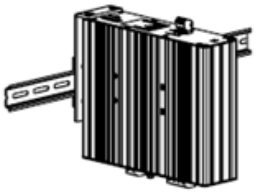
Optional bracket L58-1



Standard with DIN rail clips



Optional bracket L58-1 + DIN rail clips



Optional bracket L58-2 with TS-35 mounting plate

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