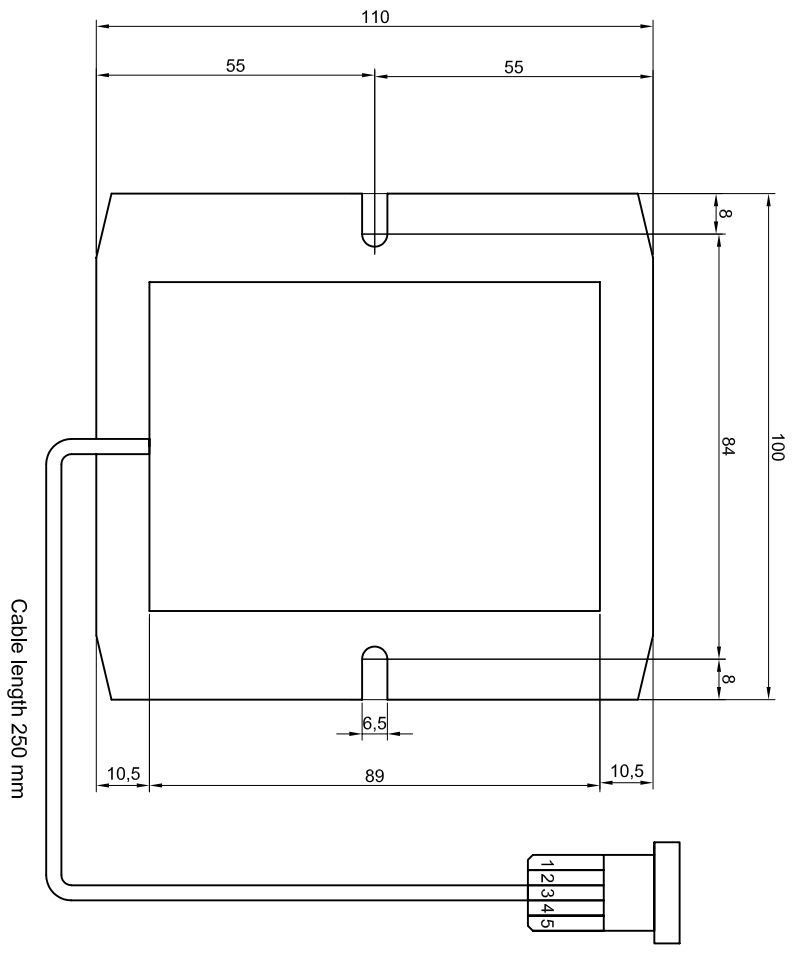
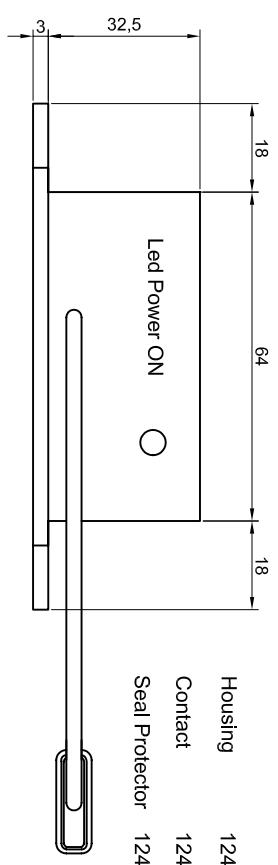


Technical Data Sheet DC/DC converter 24W100

Housing 12453487 (Amp 282107-1)
 Contact 12451944 (Amp 282109-1)
 Seal Protector 12452181 (Amp 281934-2)



Parameter	Min.	Max.	Unit	Test Condition
Input Voltage	30	150	V	
Output Voltage	23.5	24.5	V	
Output Current	0	4.2	A	Constant
Efficiency	88		%	V _{in} =48V, I _{out} =4.2A
Static load regulation		500	mV	I _o =0-4.2A, V _{in} =48V, T=25°C
Static line regulation		200	mV	V _{in} =30-130V, T=25°C, I _o =4.2A
Output short circuit protection				Yes
Output current limit	4.7	5.7	A	V _{in} =30-150V, V _o U _I =24V
Enable voltage (ENABLE)	+20	+150	V	Referred to "IN-"
Input reverse polarity protection				Yes
Output series diode				Yes
Output crowbar protection		30	V	Double crowbar optional
Led power ON				Yes
Thermal protection		90	°C	Yes
External temperature range	-20	+55	°C	
Storage temperature range	-40	+70	°C	
Protection degree				IP65 (Connector excluded)
Directive reference	89/336/EEC - electromagnetic compatibility (EMC) 73/23/EEC - low-voltage			
Standards	EN 61204: 2001-07 EN 12895: 2002-03			

Position	Colour	Function
1	BLACK	IN+
2	BLUE	IN-
3	RED	OUT+
4	BLUE	OUT-
5	ORANGE	ENABLE

The Input ENABLE must be connected to positive battery voltage, typically after the key switch