

**DC / DC converter, heavy duty**  
**High voltage input**  
**Type: LLC**

**Technical data**

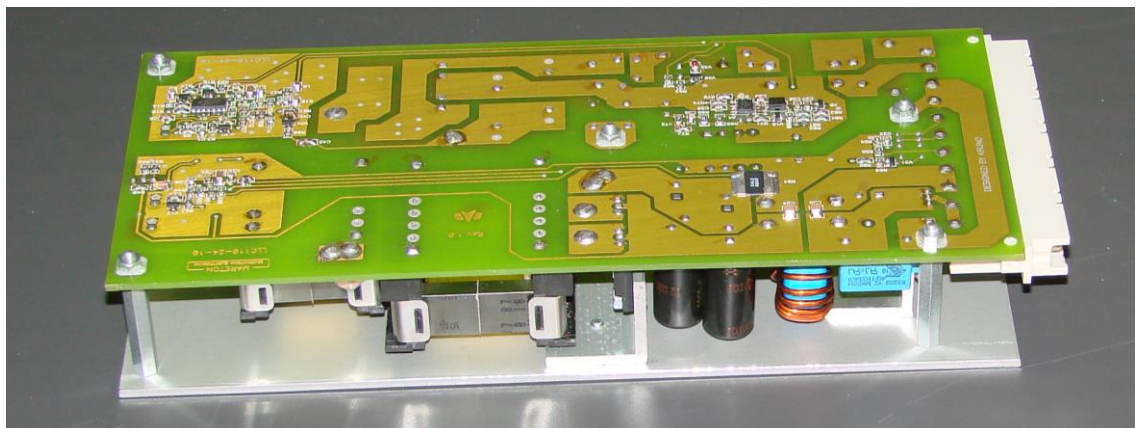
INPUT: 220 VDC

Type:	LLC 220 – 10 – 2.5	LLC 220 – 60 – 4	LLC 220 – 48 – 5	LLC 220 – 24 – 10
Output:	110 VDC, 2,5 A	60 VDC, 4 A	48 VDC, 5 A	24 VDC, 10 A

INPUT 110 VDC:

Type:	LLC 110 – 220 – 1.3	LLC 110 – 60 – 4	LLCX 110 – 48 – 5	LLC 110 – 24 – 10
Output:	220 VDC, 1,3 A	60 VDC, 4 A	48 VDC, 5 A	24 VDC, 10 A

Input voltage deviations:	± 15 % permanently and operationally
Input over voltage resistance:	+ 25 %
Input over voltage peak resistance:	up to +100 %, peak value (under 1 ms)
Output voltage stability to any change of $U_i$	better than 0,5 %
Output voltage stability to any change of $I_{out}$ :	better than 1 %
Ripple:	<0,1% rms
Possibility of output voltage adjustment:	± 15 %
Current limit:	$I_n$
Battery charging characteristics:	IU (for battery charger)
Technology:	Resonant converter, LLC circuit, soft switch
Input protections:	under voltage, surge voltage over voltage, over current
Output protections:	over voltage, over current
Power modulator design:	Resonant half bridge
Operating frequency:	75 kHz to 500 kHz
Efficiency	> 0,94
Galvanic separation input – output - housing:	1,5 kV, 50 Hz, 1 min
Indication:	input voltage – LED, output voltage – LED
Signalisation:	Failure, operation – voltage free contact
Ambient temperature during operation:	-20°C to +50°C
Cooling	natural
Dimensions (w x h x d):	250 x 110 x 55 mm



Author: K. Pavić, B.Sc.e.e.

Surveyor: V. Hlušička, B.Sc.e.e.

Approve: M. Štetić, B.Sc.e.e.

**MARETON**  
 POWER ELECTRONIC  
 ZAGREB-CROATIA

**DC / DC converter**  
**Type: LLC**

Revision 0 | Dat 28.05.2012.

01-470-50-051

Page: 1

Next: -

File: