

The Power Source Board is used to filter, galvanic isolation and unification of the power supply for the boards Z102. It is designed for insertion into the rack of the system Z102 (e. g. RC0001R1 – 19" rack). Construction allows insertion and removal of the board from the rack during system operation (Live Insertion).



BC0005P1

Electrical parameters					
1. Input parameters					
Parameter	Conditions	Min.	Type	Max.	Units
Input voltage		38	48	60	Vdc
Output current	P_{nom} no-load	6,1 0,23	4,7 0,15	3,8 0,13	A _{dc}
Max. puls. Voltage 1,2/50 μ s	Sym. buzení (+U _{in} /-U _{in})			1 2	kV kV
Resistance to rapid transition pulse 5/50ns (inrush limiting)	Sym. i nesym. buzení			2	kV
Blocking undervoltage - OFF		31	32,5		Vdc
Undervoltage blocking - ON			34	35,5	Vdc
Blocking overvoltage		62,2		68,8	Vdc
2. Output parameters					
Parameter	Conditions	Min.	Type	Max.	Units
Output voltage	$P_o - P_{nom}$	23	24	25	Vdc
Output current	at P_{nom}			8,5	A _{dc}
Output voltage ripple				100	mVp-p
Output active power P_{nom}				200	W
Output peak power	Duration is max.1ms			300	W
Effectiveness	ρ_{fi} P_{nom}			90	%
3. Protection					
Parameter	Value	Units	Note		
Built input fuse	F 7A/125V		internal fuse		
Reverse polarity protection on input			internal fuse		
Overtemperature (PRM+VTM)	typ 125	°C	refundable thermal fuse		
Overload protection and output short circuit	12,8	A	refundable thermal fuse		

- Input voltage 48 V DC
- Output voltage 24 V DC
- Performance – Nominal 200 W
- Inrush Current Limiting
- EMI filter