

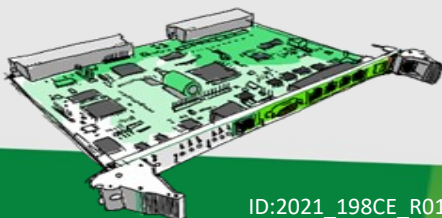
## Power Source Board BB0005P1 of Control System SandRA Z200 line

The Power Source Board **BB0005P1** belongs to the family of control systems **SandRA Z200** that represents robust and high-performance solution ideal for conventional power industry and a broad specter of industrial fields. During development and production of our products, we proceed from our rich experience in automation technology and pay a particular attention to safety **and reliability**.

The power supply board is used for filtering, **galvanic isolation** and subsequent unification of the supply voltage for powering the boards of the **Z200** family. Thanks to the combination of a controller and an inverter, the function of the **DC / DC** inverter is ensured with high efficiency which is suitable for **demanding applications** in industrial areas. Both the controller and the inverter contain temperature fuses and short-circuit protection.



- Designed for 19" rack
- Board dimensions 160 x 233 mm
- 200W Power
- Input voltage 48V
- EMI filter
- Construction and Circuit design enables Hot Swap functions



## Mechanical Parameters and Weight

Parameter	Specifications	Min.	Type	Max.	Units
Board dimensions			160 x 233		mm
Panel dimensions <sup>1</sup>			4TE x 6HE		
Weight			555		g

<sup>1</sup>Designed for 19" rack

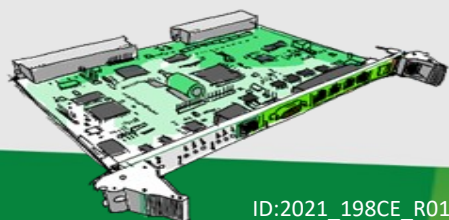
## Electrical Parameters

### Input parameters

Parameter	Specifications	Min.	Type	Max.	Units
Input voltage		38	48	60	Vdc
Input current	$P_{nom}$ $P_o$ (off-load)	6,1 0,23	4,7 0,15	3,8 0,13	
Max. pulse voltage 1,2/50 $\mu$ s	Sym. excitation (+Uin/-Uin)		1		kV
			2		kV
Resistance against fast transient pulses 5/50 $\mu$ s	Sym. and asym. excitation		2		kV
Limitation of inrush current (inrush limiting)				2	A
Undervoltage blocking— switch off		31	32,5		Vdc
Undervoltage blocking— switch on			34	35,5	Vdc
Overvoltage blocking		62,2		68,8	Vdc

### Output parameters

Parameter	Specifications	Min.	Type	Max.	Units
Output voltage	$P_o - P_{nom}$	21,5	24	26,5	Vdc
Output current	at $P_{nom}$			8,5	Adc
Output voltage ripple				100	mV <sub>p-p</sub>
Output active power $P_{nom}$				200	W
Peak output	Duration max. 1 msec.			300	W
Effectivity	at $P_{nom}$			95	%



## Protections

Parameter	Value	Units	Note
Built-in input fuse	F 7A/125V		Internal safety fuse
Reverse polarity protection			Internal safety fuse
Temperature excess (PRM+VTM)	type 125	°C	Reversible temperature fuse
Output overload and short circuit protection	12,8	A	Reversible temperature fuse

This document is applied to the Power Source Board BB0005P1 designed for power supplying of the Z200 system boards and follows up on the document "Technical conditions Z200" no. 4-5397 of which it has been an integral part.

