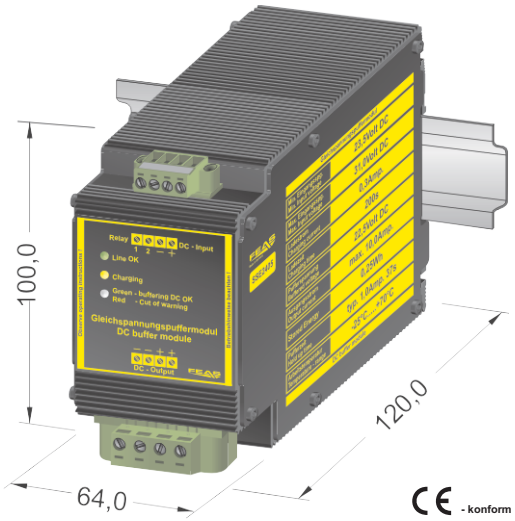
SSE05

Operating instructions
Please observe carefully!



Complementing the:

SSE1205, SSE2405

Please observe

When using the buffer module in parallel to the load please observe the wiring diagram **“Connections for buffered load only”**.

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General safety rules :

When working with products which are in contact to dangerous electrical voltages, attention must be payed to the relevant valid VDE / IEC / EN regulations. Especialy with refrence to the following rules:
VDE 0100, VDE 0550 / 0551, VDE 0711, VDE 0860, IEC 664, IEC 742, IEC 570, IEC 65

In case of non-observance of this instructions the unit or other equipment might be damaged and no warranty or liability could be accepted.

When it is necessary to use tools on the device components parts or subassemblies make sure that the power is disconnected from the device and all capacities are discharged.

Before opening the equipment disconnect the power cord and make sure that the contacts are not energized. It is only allowed to take components parts, subassemblies or device into operation if they are mounted in an insulated housing. During the installation all devices have to be disconnected from power sources.

Power cords and leads which are connected to the device, components or subassemblies have to be inspected for damaged insulation. If a failure is detected the device or the subassembly has to be put out of service at once. It is not allowed to take the device or the subassembly into operation before replacing the damaged power cord.

It is up to the user’s responsibility that the specification limits of the device are not exeeded.

If the user is not fully able to relate the technical guidelines, a technical adviser has to be asked for information.

The observance of construction requirements and safety rules (VDE, IEC, employers liability insurenance i.e.) is subject to the user/customer.

Consumers (e.g. contactors, motors, solenoid valves etc.) which have not been correctly interference-suppressed in accordance to the relevant guidelines (e.g. varistors, RC elements, etc.) may cause power supply regulation to malfunction.

A permanent overvoltage on the input unavoidably causes a damage of the device.

Typ		SSE1205	SSE2405	
Input voltage U_{IN}		$11,5V_{DC}$....$18,0V_{DC}$	$23,5V_{DC}$....$31,0V_{DC}$	
Charging current		0,75A	0,4A	
Buffered voltage U_{Buffer}		$11,0V_{DC}$	$22,5V_{DC}$	
Output current I_{Nom} (I_{MAX})		20A (Boost 30A)	10,0A (Boost 15,0A)	
Hold-up-time		typ. 2,0A 75s	typ. 1,0A 75s	
dimensions	BxHxT WxHxD	64mm x 100mm x 120mm		
t weight		ca. 1,37kg	ca.1,37kg	

LED-Display

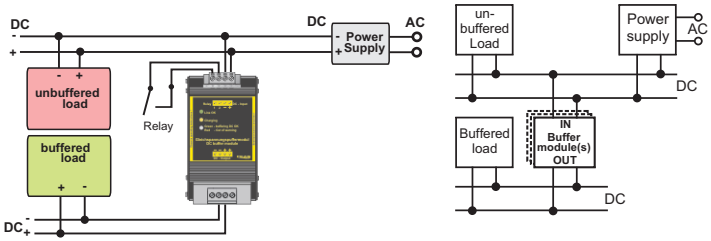
	at buffer module		at grid module	
Line OK	off	DC Input failed	green	DC Input OK
Charging	off		off yellow	Capacitor full charged Charging
Buffering DC OK Cut of warning	red	Charge of capacitor <33%	red	Charge of capacitor <33%
	green	Charge of capacitor >33%, Ready for use	green	Charge of capacitor >33%, Ready for use

Relay-contacts

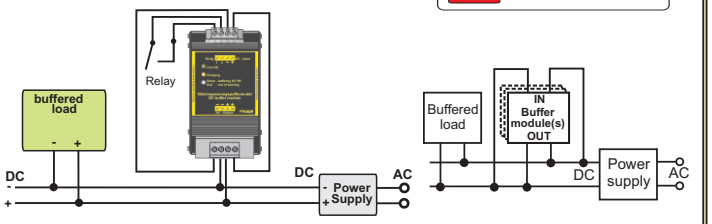
1-2 : **DC-Input OK**
As long as U_{IN} is $>U_{IN\,MIN}$, the relay is closed.
In the case that U_{IN} failed, the relay drops out and the message “**mains network failed**” occurs.

Wiring diagram

Connections for buffered and unbuffered load.

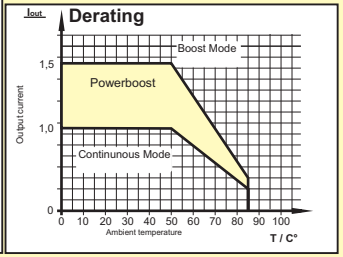


Connections for buffered load only.



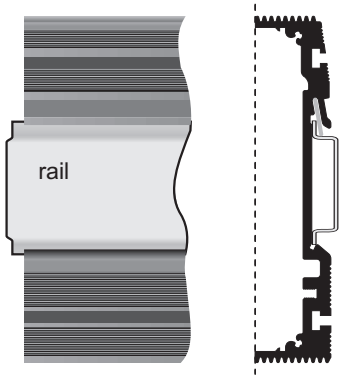
max. contact-load of the Relay - 0,5 Amp / 125 VAC

Mounting on rail

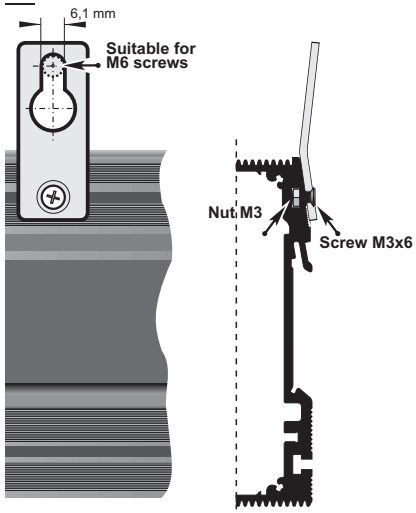


Mounting alternatives

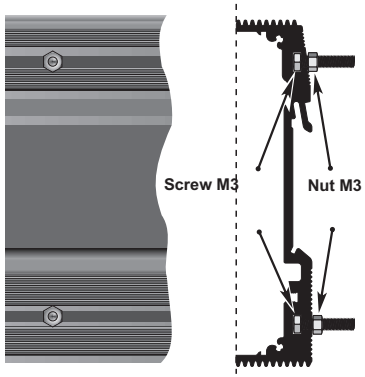
1.



2.



3.



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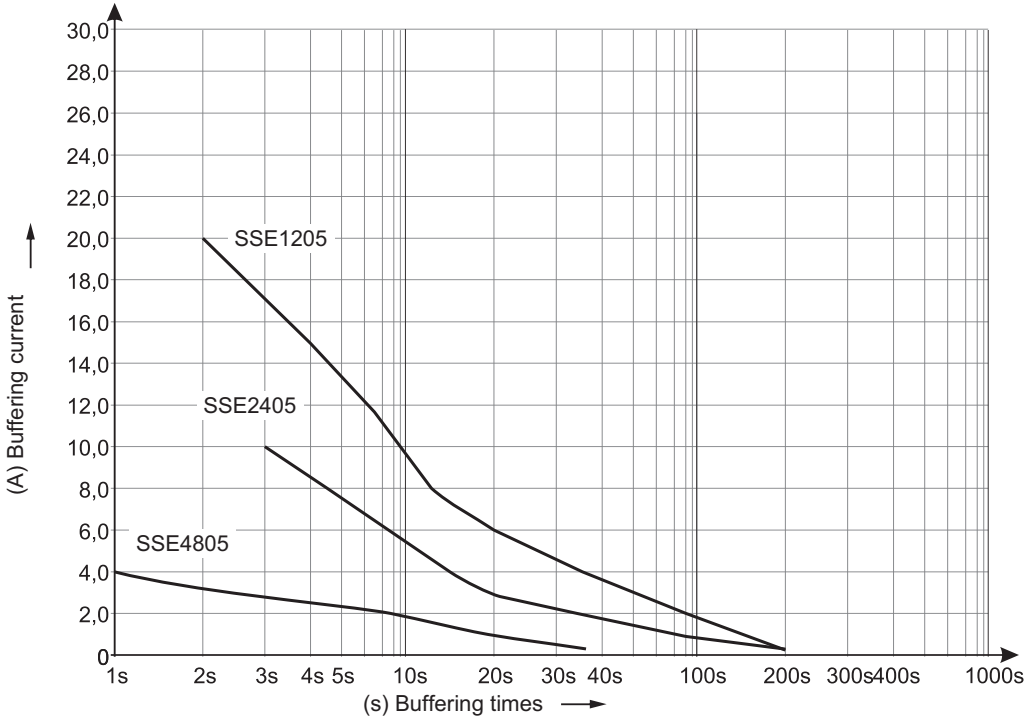
Buffering times in comparison



Technical Data

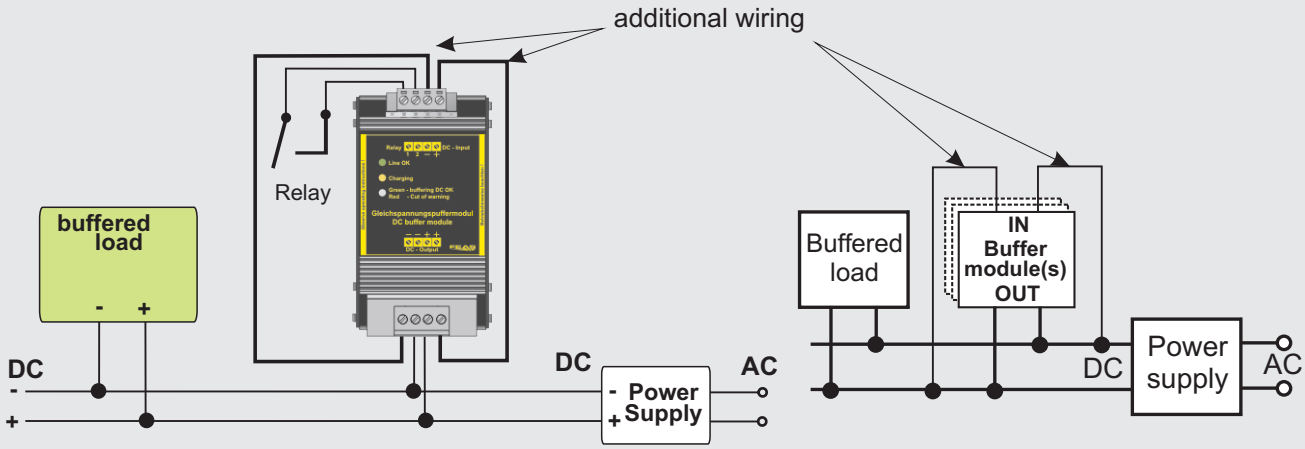
Input data	
Input voltage AC	-
Input voltage DC	see table
Charging current	see table
Output data	
Buffered voltage	see table
Current limiting	-
Residual ripple	< 50 mV
Control data	
Control deviation load	< 100mV with load variation 10...90%
Control deviation supply	-
Control time	< 10 msec. with load variation 10...90%
Operating data	
Duty circle	100%
Operating temperature	-30°C to +80°C
Hold-up-time	see diagram left
Storage temperature range	-40°C to +80°C
Cooling	selfcooling
	recommended respective distances 15mm each
Safety devices	
Fuse recomended for input	not necessary
Output fuse	not necessary - cont. short-circuit proof
Overload protection	integrated into device
MTBF	> 380.000 h
Safety data	
Test voltage transformer	-
High-voltage resistance	-
Degree of EMI suppression	in accordance to VDE 0871 B and EN 55022/B
protection class	class II
Ambient humidity	95% rel. humidity, yearly average dewing
	allowed for use in tropical ambient
Protective class enclosure	IP 65
Protective class terminals	IP 20 (VGB4)
Vibration proof	>30g at 33Hz in X, Y and Z,
	acc. to IEC 68 and DIN 41640
Applied construction regulations	
according to VDE	VDE 0100, 0110, 0113, 0551, 0806
IEC	IEC 60950-1, IEC61000-6-1-2-3-4, IEC60068-2
EN	EN60950-1, EN61000-4-2, ENV61140
	EN61000-6-1-2-3-4,EN61000-4-5-6-11
CSA / UL	CSA-C 22.2 / UL508 / UL60950 / UL1950
Mechanics	
Mounting	on rails acc. to DIN 46277

Stand / as at: 26.03.2012

FEAS

Please observe

Connections for buffered load only.



Within an optimizing we improved technical features of the SSE1205 and SSE2405:

- ❑ Increase the capacity **by 20%**
- ❑ Increase the over-load performance **by 50%** up to $I_{MAX}=1,5*I_{NOM}$

Please take care of differents in wiring diagram **"Connections for buffered load only"** according enclosed instruction.

Stand: 03.02.2012

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