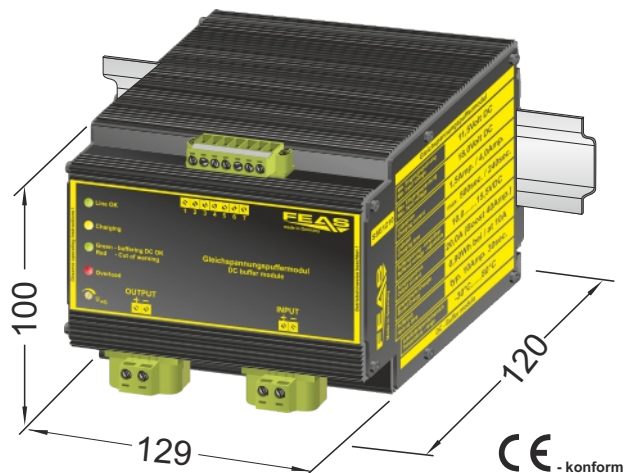


# Data sheet

## Buffer modul: SSE1210

### Technical data



#### General data

Type	SSE1210
FEAS Order number	621210
Product description	Buffer modul
Product function	DC power supply

#### Input data

Min. input voltage $U_{in, Min}$	11.5 V <sub>DC</sub> (min. $U_{BUFF} + 1.5V$ )
Max. input voltage $U_{in, Max}$	18.0 V <sub>DC</sub>
Charging current normal / fast	1.5 A / 4.0 A
Charging time (buffer) normal / fast	max. 500 s / 240 s
Protective circuit	Transient voltage suppressor Varistor

#### Output data

Buffered voltage $U_{nominal}$	12 V <sub>DC</sub>
Buffered voltage $U_{BUFF}$	adjustable 10.0 ... 15.5 V <sub>DC</sub>
Output current $I_{nominal}$	20.0 A
Current limiting	2.0 x $I_{nominal}$
Residual ripple (20MHz)	<50mV <sub>SS</sub>

#### Control data

Control deviation load	<200mV with load variation 10 ..... 90%
Control deviation supply	-
Control time	<10ms with load variation 10 ..... 90%

#### Operating data

Duty circle (ED)	100% (continuous operation)
Stored energy	0.9 Wh / 3.24 kJ
Buffering-time	typ. 10.0A - 20s (see graph on the back)
Efficiency	ca. 96% (grid operation)
Parallel connection	Yes
Operating temperature range	-30°C to +80°C
Derating	from 50°C
Storage temperature range	-40°C to +80°C
Cooling	selfcooling recommended respective distance 15mm each
Installation altitude	unlimited
MTBF	> 380.000h

#### Safety devices

Fuse for input	not necessary
Fuse for output	not necessary - short circuit proof
Overload protection	integrated into device

#### Safety data

Test voltage transformer	-
High voltage resistance	-
Degree of EMI suppression	according VDE0871B, EN55022/B
Protection class	Class II
Extra low safety potential	PELV (EN60204), SELV (EN60950)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient
Protective class enclosure	IP65
Protective class terminals	IP20 (BGV A3)
Vibration proof	>30g at 33Hz in X, Y and Z acc. IEC68 and DIN41640

#### Status & Signal

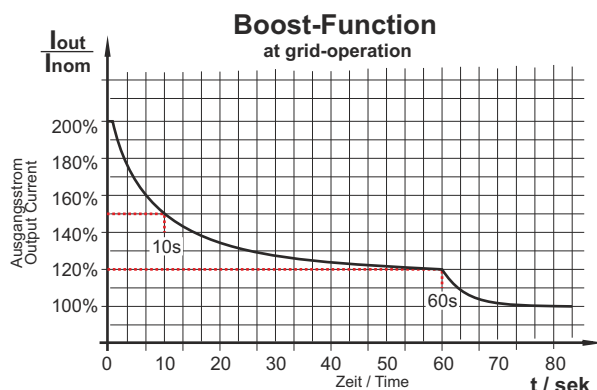
Status indicator	LED - Operation, Charging, Buffer-mode, Overload
Signals	Relay - Line-In, Charging-level, Temperature, Overload
Interfaces	-

#### Applied construction regulations

according to VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0806
IEC	IEC60950-1, IEC61000-6-1-2-3-4, IEC60068-2-3, IEC60068-2-11-52, IEC60529
EN	EN60950-1, EN61140, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN55011, EN61000-3-2, EN61000-3-3, EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11, EN60068-1, EN6068-2-1, EN61558-2-17, EN61010-1
CSA/UL	CSA-C 22.2 / UL60950, UL508, UL1950

#### Mechanical data

Mounting	on Rails according to DIN 46277
Dimensions (W x H x D)	129mm x 100mm x 120mm
Weight	approx. 2.80kg



#### Products of the series:

Type	SSE1210	SSE2410	SSE4810
Order number	621210	622410	624810
Stored energy	0.9 Wh 3.24 kJ	0.95 Wh 3.42 kJ	0.95 Wh 3.42 kJ
Adjustable range of output voltage	10.0-15.5 V <sub>DC</sub>	22.5-30.0 V <sub>DC</sub>	45.0-60.0 V <sub>DC</sub>
Output current	20.0 A	15.0 A	7.5 A
Charging-current (normal / fast)	1.5 / 4.0 A	1.0 / 3.0 A	0.5 / 1.5 A
Buffered time (typ. $U_{NENN}$ )	30s typ. 10.0 A	30 s typ. 5.0 A	30 s typ. 2.5 A



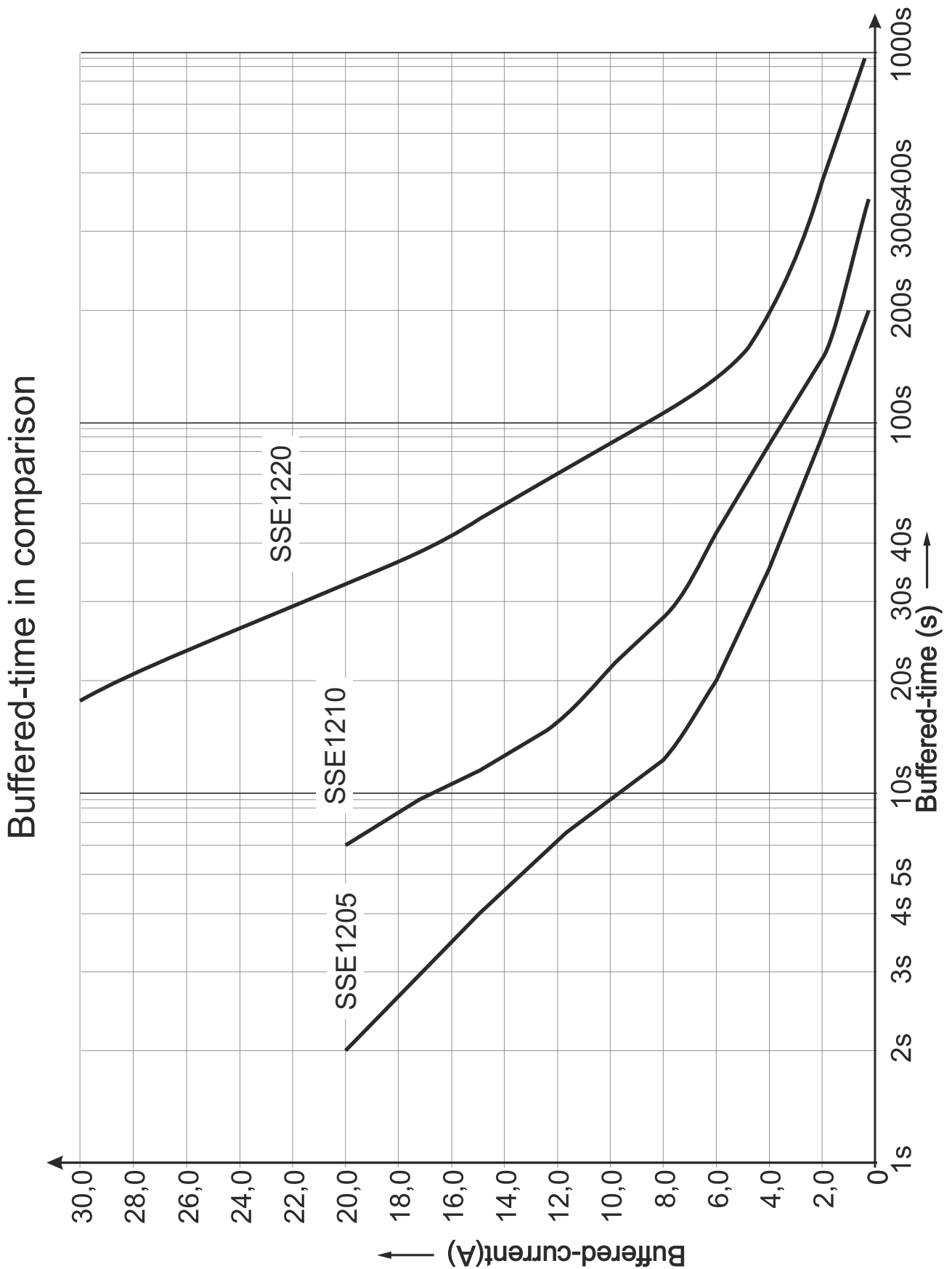
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# Data sheet

Buffer modul: **SSE1210**



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