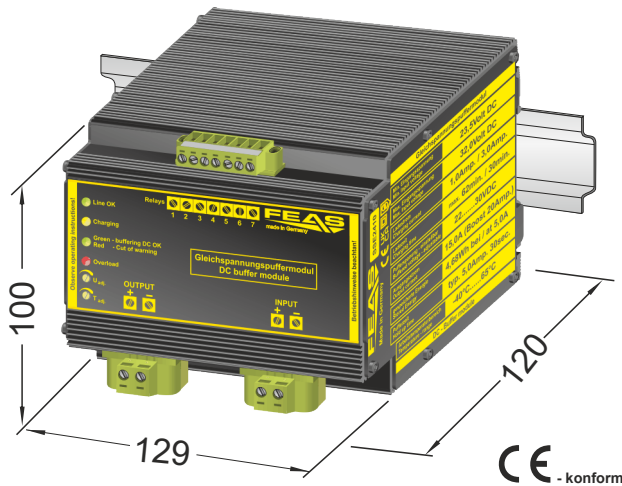


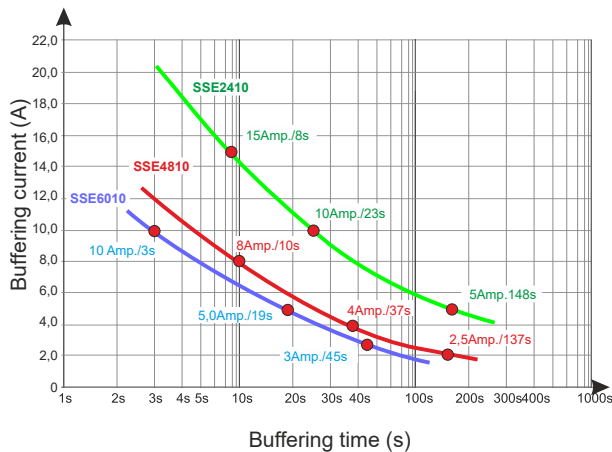
Data sheet

Buffer module: SSE2410

Technical data



Buffering times in comparison



Products of the series

Type	SSE2410	SSE4810	SSE6010
Order number	622410	624810	626010
Input voltage	23.5-32.0 V _{DC}	47.0-55.0 V _{DC}	62.0-74.0 V _{DC}
Buffer voltage adjustable	22.0-30.0 V _{DC}	45.0-53.0 V _{DC}	60.0-72.0 V _{DC}
Nominal voltage (U _{nom})	22.5 V _{DC}	45.0 V _{DC}	60.0 V _{DC}
Output current (boost)	max. 15.0 A (20 A)	max. 7.5 A (15 A)	max. 6.0 A (10 A)
Charging current (normal / fast)	1.0 / 3.0 A	0.5 / 1.5 A	0.5 / 1.5 A
Hold-up-time (at U _{nom}) adjustable	typ. 5.0 A 30 s	typ. 4.0 A 30 s	typ. 3.0 A 45 s
Stored energy (max.)	4.68Wh/ 16.85kJ bei 5.0A	2.31Wh/ 8.32kJ bei 4.0 A	2.75Wh/ 9.90kJ bei 3.0 A

General data

Type	SSE2410
FEAS Order number	622410
Product description	Buffer module
Product function	DC power supply

Input data

Min. input voltage U _{in Min}	23.5 V _{DC} (U _{N MIN} =1,0V+U _{buffer})
Max. input voltage U _{in Max}	32.0 V _{DC}
Charging current (normal / fast)	1.0 A / 3.0 A
Charging time buffer (normal / fast)	max. 62min. / 30min.
Protective circuit	Transient voltage suppressor

Output data

Output voltage U _{nom}	22.5 V _{DC}
Buffered voltage U _{buffer}	22.0 V _{DC} - 30.0 V _{DC} (adjustable)
Output current I _{nominal}	max. 15.0 A (boost max. 20 A)
Current limiting	1.3 x I _{nominal}
Residual ripple (20MHz)	<50mV _{pp}

Control data

Control deviation load	<100mV 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	4.68 Wh / 16.85 kJ at 5 A
Buffering-time	typ. 5.0A - 30s (adjustable 5sec. - max.)
Efficiency	ca. 97% (grid operation)
Parallel connection	Yes
Operating / device temperature range	-40°C to +65°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 required
Fuse for output	required in the amount of the maximum load current
Overload protection	integrated into device
Short-circuit proof	yes

Safety data

High voltage resistance	-
Degree of EMI suppression	according VDE0871B, EN55022/B
Protection class	Class II
Extra low safety potential	PELV (EN60204), SELV (EN62368)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient
Protective class enclosure	IP68
Protective class terminals	IP20 (BGV A3)
Vibration proof	>30g at 33Hz in X, Y and Z acc. IEC68 and DIN41640

Status & Signal

Status indicator - LEDs	Line OK, charging status, buffer operation, overload/overtemperature, switch-off warning
Signals - relay contacts	Line OK, charging status, buffer operation, overload / overtemperature, switch-off warning

Applied construction regulations

according to VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0806
IEC	IEC62368-1, IEC61000-6-1-2-3-4, IEC60068-2-3, IEC60068-2-11-52, IEC60529
EN	EN62368-1, 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 / UL62368, UL508, UL1950

Mechanical data

Mounting	on Rails according to DIN 46277
Dimensions (W x H x D)	129mm x 100mm x 120mm
Weight	approx. 2.95kg



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