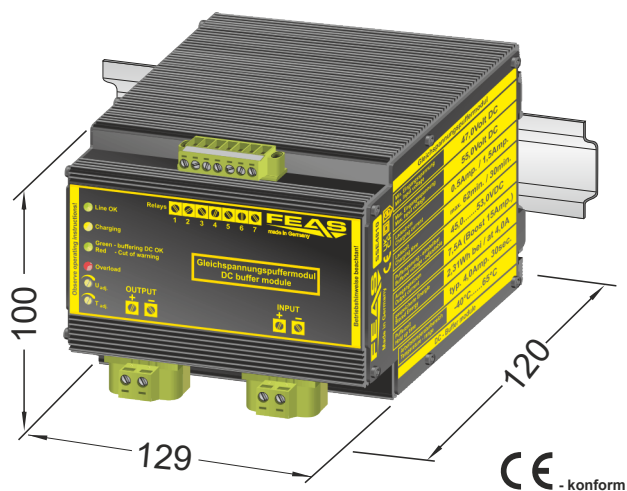


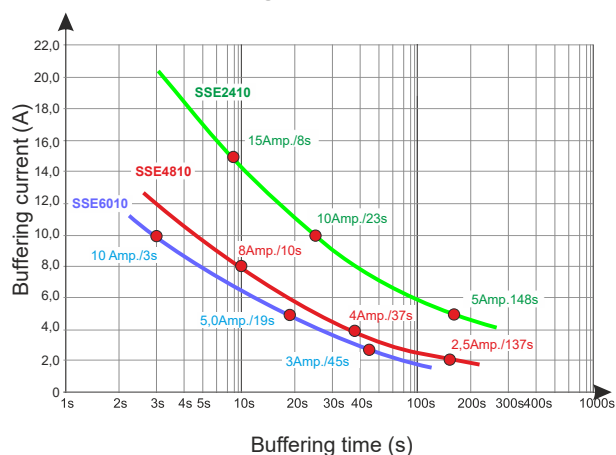
Data sheet

Buffer module: SSE4810

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 | SSE4810 |
| FEAS Order number | 624810 |
| Product description | Buffer module |
| Product function | DC power supply |
| Input data | |
| Min. input voltage U _{in Min} | 47.0 V _{DC} (U _{N MIN} =2,0V+U _{buffer}) |
| Max. input voltage U _{in Max} | 55.0 V _{DC} |
| Charging current (normal / fast) | 0.5 A / 1.5 A |
| Charging time buffer (normal / fast) | max. 62min. / 30min. |
| Protective circuit | Transient voltage suppressor |
| Output data | |
| Output voltage U _{nom} | 45.0 V _{DC} |
| Buffered voltage U _{buffer} | 45.0 V _{DC} - 53.0 V _{DC} (adjustable) |
| Output current I _{nominal} | max. 7.5 A (boost max. 15 A) |
| Current limiting | 2.0 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 | 2.31 Wh / 8.32 kJ at 4 A |
| Buffering-time | typ. 4.0A - 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 |



Postfach 1521
D - 22905 Ahrensburg

Phone: +49 4102 42082
Fax: +49 4102 40930

E-Mail: sales@feas.com
Internet: www.feas.com