

# Data sheet

## Buffer module (DC UPS): SSE4830

### Technical data

#### General data

Type	SSE4830
FEAS Order number	624830
Product description	Buffer module
Product function	DC power supply

#### Input data

Min. input voltage $U_{in \text{ Min}}$	47.0 V <sub>DC</sub> ( $U_{N \text{ MIN}}=2,0V+U_{\text{buffer}}$ )
Max. input voltage $U_{in \text{ Max}}$	55.0 V <sub>DC</sub>
Charging current	1.45 A
Charging time buffer	max. 80min.
Protective circuit	Transient voltage suppressor

#### Output data

Output voltage $U_{\text{nom}}$	45.0 V <sub>DC</sub>
Buffered voltage $U_{\text{buffer}}$	45.0 V <sub>DC</sub> - 53.0 V <sub>DC</sub> (adjustable)
Output current $I_{\text{nominal}}$	max. 7.5 A
Current limiting	yes
Residual ripple (20MHz)	<50mV <sub>pp</sub>

#### 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	24.1 Wh / 86.2 kJ
Buffering-time	typ. 6.0A - 250s (adjustable 5sec. - max.)
Efficiency	ca. 98% (grid operation)
Parallel connection	Yes
Operating / device temperature range	-40°C to +55°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

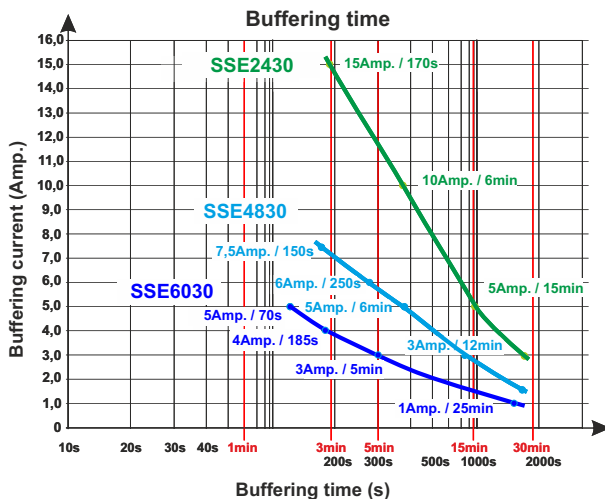
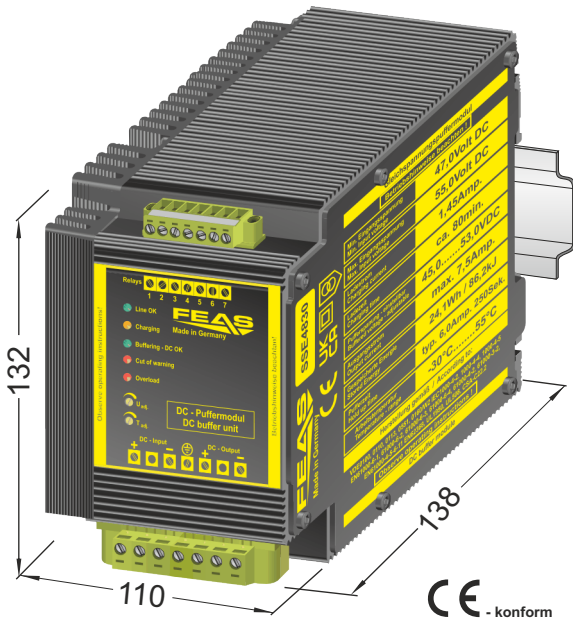
Status indicator - LEDs	Line OK, charging status, buffer operation, overload/overtemperature, switch-off warning
Signals - relay contacts	Line OK, charging status, buffer operation, overload / overtemperature, switch-off warning

#### 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)	110mm x 132mm x 138mm
Weight	approx. 3.6kg



#### Products of the series

Type	SSE2430	SSE4830	SSE6030
Order number	622430	624830	626030
Input voltage	23.5-31.0 V <sub>DC</sub>	47.0-55.0 V <sub>DC</sub>	60.0-75.0 V <sub>DC</sub>
Buffer voltage adjustable	21.5-29.0 V <sub>DC</sub>	45.0-53.0 V <sub>DC</sub>	56.0-70.0 V <sub>DC</sub>
Nominal voltage ( $U_{\text{nom}}$ )	22.5 V <sub>DC</sub>	45.0 V <sub>DC</sub>	57.0 V <sub>DC</sub>
Output current	max. 15.0 A	max. 7.5 A	max. 5.0 A
Charging current	2.4	1.45	1.92
Hold-up-time (at $U_{\text{nom}}$ ) adjustable	typ. 10.0 A 260 s	typ. 6.0 A 250 s	typ. 4.0 A 185 s
Stored energy (max.)	15.3Wh/ 56.4kJ	24.1Wh/ 86.2kJ	24.1Wh/ 86.2kJ



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