

# SSO 8 kW



<b>PV Input</b>	
Maximum PV input power	8 000 W
Absolute maximum input voltage	1 000 V
Number of MPP trackers	1
Maximum MPP current <sup>1</sup>	16 A
MPPT operating range <sup>2)</sup>	100 – 720 V
Starting voltage	100 V
String inputs	1
<b>DC Output</b>	
Nominal EnergyHub DC grid voltage	760 V
EnergyHub DC grid voltage range	740 – 780 V
Voltage range for other DC grid applications <sup>3)</sup>	400 – 800 V
Maximum DC grid output current	12.5 A
DC grid connection	3-wire (L+, L-, PE)
Maximum DC grid fuse	25 A gPV
Max efficiency	99,5%
European weighted efficiency	99,2%
System communication	Narrow band power line communication (PLC)
Output voltage during fault, shut down or disconnected from DC-bus	0 V
<b>Physical</b>	
Dimensions H x W x D (including connectors)	360 x 250 x 150 mm
Weight	7.0 kg
Color	Natural anodized
<b>Installation <sup>4)</sup></b>	
Ambient temperature <sup>5)</sup>	-25°C – 60°C
Humidity; Maximum altitude	0 – 100% RH; 2000m
Degree of protection	IP 65
PV connector	MC4
DC bus output connector	Push in, 2.5 - 4 mm <sup>2</sup> , max cable diameter 6 - 12 mm
<b>Compliance</b>	
LVD	EN 62109-1, EN 62109-2 (protective class I, overvoltage cat. II)
EMC	EN 61000-6-2, EN 61000-6-3, CISPR 11 Ed.6.2 2019 Class B
RoHS	Yes
Protection functions <sup>6)</sup>	PV polarity reversal, DC polarity reversal, DC bus short circuit, Overtemperature, Residual current breaker (30 mA), String insulation monitoring

- 1) SSO single may limit current to 13A, this has negligible impact on annual energy yield.
- 2) For stable operation with high  $I_{MPP}$  strings the voltage limit must be reduced. Use SSO calculator ([www.ferroamp.se](http://www.ferroamp.se)) to calculate number of panels per SSO.
- 3) Consult Ferroamp prior to using SSO in other applications than PV production.
- 4) Consult Ferroamp for design guidelines for projects exceeding 30 SSOs or ESOs, or 200 m cable length.
- 5) Output power may be derated if ambient temperature exceeds 45°C.
- 6) Reverse PV polarity protection up to 13 A short circuit current, higher input currents with reverse polarity might damage the unit.

