

## Annex 1 - Product Specification Emergency Power 3P

<b>Ferroamp Emergency Power 3P</b>	
<b>AC Power Output (Backup)</b>	
Max power	11 kW
Max current per phase	16 ARMS
Max current per phase 5 s	25 ARMS
Output Voltage	230/400 VRMS, 50 Hz
Fusing	max 16 A
<b>Connection to the mains</b>	
Voltage	230/400 VRMS, 50 Hz
Rated input/output current	max 35 A
<b>DC Grid Connection</b>	
Voltage range	700 – 900 VDC
Fuse	Max 20 A gPV, 1000 VDC
<b>Connections</b>	
Backup Load	L1, L2, L3, N, PE, max 6 mm <sup>2</sup>
Mains AC	L1, L2, L3, N, PE, max 6 mm <sup>2</sup>
Generator AC <sup>1)</sup>	L1, L2, L3, N, PE, max 2.5 mm <sup>2</sup>
DC Networks	L+, L-, M, PE, max 6 mm <sup>2</sup>
Measuring earth	Single conductor, max 6 mm <sup>2</sup>
Relay output	1 pole switching, Max 230 VAC, 2 A, max 1.5 mm <sup>2</sup>
USB	USB-C <sup>2)</sup>
RS485	A, W, max 1.5 mm <sup>2</sup>
Schuko	Max 16 A
<b>Functionality</b>	
Features	Auto, Bypass, Off
Blackstart	760 V, 50 W
Transfer time grid to backup	Up to 10 s <sup>3)</sup>
Transfer time backup to grid	< 100 ms
<b>Physical</b>	
Ambient temperature in operation	0 – +40 °C
Relative humidity	5 - 95% RH non-condensing
Installation height	Max 2000 m
Degree of protection	IP 21
Cooling	Temperature controlled forced with replaceable air filter
Noise level	45 dBA
Dimensions	355 x 110 x 550 mm (W x D x H)
Weight	12 kg
Installation	Wall mounting
Efficiency	> 98.5% @ 7 kW
Protection features	Overvoltage DC, Undervoltage DC, Polarity error, Overtemperature, RCD 30 mA <sup>4)</sup> , Short circuit, Ground potential > 50 V, Measurement earthing resistance.
<b>Compliance</b>	
LVD	EN 62040-1, EN 62477-1 (protective class I, overvoltage cat. II)
EMC	EN 61000-6-2:2016, EN 61000-6-3:2020
RoHS2	Yes

1) For generators with pure sinusoidal voltage only

2) USB connector for firmware upgrade

3) Transfer time from grid to backup depends on the operating mode of the Ferroamp system when the power outage occurs

4) The built-in RCD only protects the Schuko socket.