

ESO - Energy Storage Optimizer

ferroamp

15 kW

Battery side	
Maximum battery power	15 kW
Nominal battery voltage (OVC ¹⁾)	600 V (Category II)
Battery voltage range ²⁾	120 – 720 V
Maximum battery current	+/- 30 A
Battery connection	2-wire (B+, B-)
Max battery fuse ³⁾	63 A MCB
Battery communication	CAN
DC microgrid side	
DC Microgrid voltage, V _{DC} (OVC ¹⁾)	760 V nominal (Category II)
Maximum DC current, I _{DC(max)}	+/- 20 A
DC Microgrid connection	3-wire (L+, L-, PE)
Max efficiency	99.5 %
Maximum DC side fuse	10x38 gPV 1000V 32 A
DC Microgrid communication	Ethernet
Physical	
Dimensions H x W x D	467 x 252 x 147 mm
Weight	10,3 kg
Color	Natural anodized
Installation	
Topology	Non-isolated, B- tied to L- when active
Environmental category	Outdoor
Wet location classification	Yes
Pollution degree classification	PD3
Degree of protection	IP 65
Ambient temperature ⁴⁾	-25°C – 60°C
Humidity	0 – 100% RH Condensing
Maximum altitude	2000 m
Battery connector	MC4
DC microgrid connector	3 pos. push-in, max 6 mm ²
System design	
Functionality	Precharge, DC microgrid blackstart from battery (50 W)
Measurement data	Voltage, current, energy, power
Compliance	
LVD	EN 62109-1
EMC	EN 61000-6-2, EN 61000-6-3
RoHS	Yes
Protection functions	Polarity fault, short circuit, overtemperature, Residual current breaker (30 mA)

1) Over Voltage Category

2) Battery voltage must always have min 20 V margin below DC microgrid voltage

3) Fuse is integral part of battery. Only Ferroamp approved batteries are allowed to be used.

4) Output power may be derated if ambient temperature exceeds 40°C

