

	EnergyHub XL Single	
AC side		
Rated AC power	21 kVA	28 kVA
Reactive power capability	Full 4-quadrant capability within current limit	
Rated AC voltage	230/400 VAC	
Rated mains frequency	50 Hz	
AC connection	5-wire (L1, L2, L3, N, PE)	
Fusing	MCB 32A type B/C	MCB 40A type B/C
DC side		
DC bus voltage, V_{DC}	760 V (nominal)	
DC bus voltage range, V_{DC}	720 - 800	
Maximum DC bus current, $I_{DC(max)}$	29 A	38 A
DC bus connection	4-wire (DC+, M, DC-, PE)	
Max efficiency DC to AC	98.5 %	
Max efficiency AC to DC	98.0 %	
DC bus communication	Narrow band power line communication (PLC)	
Physical		
Dimensions H x W x D	1004 x 522 x 318 mm	
Weight	70 kg	
Color	Black	
Installation		
Ambient temperature ¹⁾	0°C – 45°C	
Humidity	0 – 95% RH non condensing	
Degree of protection	IP 21	
Maximum altitude	3000 m	
AC connector	Phoenix VC-AMC-5, screw terminal max 10 mm ²	
DC bus connector	Phoenix VC-AMC-4, screw terminal max 10 mm ²	
System design		
Number of EnergyHub Single in parallel ²⁾	1 – 4 units (maximum 112 kVA)	
Maximum DC bus cable length ³⁾	200 m	
Measurement data	AC x 3: Voltages, currents, phase angles, DC: voltage, current	
Connectivity	Ethernet, USB, CAN	
Compliance		
LVD	EN 62109-1, EN 62109-2	
EMC	EN 61000-6-2, EN 61000-6-3	
Grid interaction	EN 50549-1	
RoHS	Yes	
Protection functions	AC overvoltage protection cat III, DC overvoltage protection cat II, DC bus short circuit, Overtemperature	

1) Output power may be derated if ambient temperature exceeds 35 °C

2) Installation kit for connecting in parallel is sold separately

3) Consult Ferroamp for design guidelines for projects with cable lengths exceeding 200 meters