

	EnergyHub XL module	
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 type B, 32 A	MCB type B, 40 A
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	220 x 520 x 650 mm	
Weight	43 kg	
Color	Black	
Installation		
Ambient temperature ¹⁾	-10°C – 45°C	
Humidity	0 – 95% RH non condensing	
Degree of protection	IP 21	
Maximum altitude	2000 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		
Max units in parallel	Up to 500 kVA	
Maximum DC bus cable length ²⁾	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 III, DC overvoltage protection II, DC bus short circuit, Overtemperature	
	19" Cabinet	
Size	24U	42U
Dimensions	1265 x 600 x 800 mm	2065 x 600 x 800 mm
Weight	82 kg	130 kg
AC connection	Terminal, max 70 mm ²	Terminal, max 120 mm ²
DC bus connection	Terminal, max 70 mm ²	Terminal, max 120 mm ²

1) Output power may be derated if ambient temperature exceeds 30 °C

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