# EnergyHub Wall

7 & 14 kVA

ferroamp

| | EnergyHub Wall | |
|---|---|---|
| **AC side** | 7 kVA | 14 kVA |
| Rated AC power | 7 kVA | 14 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 3x10A type B/C | MCB 3x20A 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, $I_{DC(max)}$ | 10 A | 20 A |
| DC bus connection | 4-wire (L+, M, L-, 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 | 530 x 350 x 176 mm | |
| Weight | 21 kg | 23 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 Contact PRC 5, screw terminal max 6 $mm^2$ | |
| DC bus connector | Phoenix Contact Combicon, screw terminal max 6 $mm^2$ | |
| **System design** | | |
| Number of EHUB wall in parallel | 1 – 4 units (total 56 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, Relay output x 2 | |
| **Compliance** | | |
| LVD | EN 62019-1, EN 62109-2 | |
| EMC | EN 61000-6-2, EN 61000-6-3 | |
| Grid connection | 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) Consult Ferroamp for design guidelines for projects with cable lengths exceeding 200 meters

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