

ferroamp

EnergyHub Wall

EHUB 7 kW, 14 kW



Bidirectional inverter with DC nanogrid technology

- One single inverter for PV, storage and small scale wind
- ACE technology for three phase load current balancing
- High resolution energy measurement and analytics
- Future proof design enables easy expansion
- Enables powerful AC or DC EV charging
- Enables DC nanogrid in buildings



The new DC infrastructure for PV, storage and more

The EnergyHub system brings a new future proof way of integrating PV, storage, small scale wind and DC loads.

The EnergyHub bidirectional inverter acts as a bridge between the facility AC grid and the local EnergyHub DC nanogrid where solar cells, batteries and loads are connected via EnergyHub optimizers. The patented ACE technology provides three phase load balancing for reduced grid fees or faster EV charging. High resolution measurements of energy consumption as well as system performance allows for advanced analysis enables energy services and increased energy efficiency.

The DC nanogrid architecture enables easier installation or modification and allows for energy to be stored or used directly on the DC side for better energy utilization and minimal conversion losses.

	EHUB	
AC side	7 kVA	14 kVA
Rated AC power	7 kVA	14 kVA
Reactive power capability	0 – 1, active power prioritized	
Rated AC voltage	3 x 230 VAC	
Rated mains frequency	50 Hz	
AC connection	5-wire (L1, L2, L3, N, PE)	
Fusing	MCB type B, 10 A	MCCB type B, 20 A
DC side		
DC bus voltage, V_{DC}	760 V (nominal)	
DC bus voltage range, $V_{DC}^{1)}$	720 - 800	
Maximum DC bus current, $I_{DC(max)}$	10 A	20 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	530 x 350 x 176 mm	
Weight	18.0 kg	25.4 kg
Color	Black	
Installation		
Ambient temperature	-25°C – 55°C	
Humidity	0 – 100% RH non condensing	
Degree of protection	IP 21	
AC connector	Phoenix Contact PRC 5	
DC bus connector	Phoenix Contact PC 4	
System design		
Number of EHUBs in parallel	1 – 4	1 – 4
Maximum DC bus cable length	1 200 m	
Output voltage during fault, shut down or disconnected from DC-bus	0 V	
Compliance		
LVD	EN 62109-1, EN 62109-2 (protective class I, overvoltage cat. III)	
EMC	EN 61000-6-2, EN 61000-6-3	
RoHS	Yes	
Protection functions	DC bus short circuit, Over temperature, Residual current breaker (30 mA), String insulation monitoring	

