



Engineered
in Norway

Evert Power Management Unit (PMU)

The smart wallbox that charges your EV – and helps power your home.
With a **built-in DC charger and inverter** for bidirectional charging.



V2H & V2G ready – DC charger inside

Use your EV to power
your home – or connect
to the grid.



Built-in inverter

Built-in inverter PV-ready
with 3 independent
MPP trackers.



HEMS support with broad compatibility

Works with
2,000+ devices.



Energy smart

Supports dynamic
tariffs & VPPs.

All-in-one ecosystem. One connected app suite.



Installer app:
on-site setup in
minutes



Customer app:
solar, EV, and more
in one place



Web portal:
remote updates
& diagnostics

Evert Power Management Unit (PMU)

Preliminary Technical Data

AC Output (on-grid)	Value	Unit
Nominal output power	22000	W
Maximum output apparent power	24200	W
Nominal/Maximum output voltage	3 × 380 / 3 × 400	V
Nominal/Maximum output current	32 / 35.2	A
Nominal grid frequency	50.00 ± 0.02	Hz
Power factor	0.8 leading to 0.8 lagging	
Total current harmonic distortion	< 2	%

DC Input (from PV MPPT)		
Maximum PV power	28600	W
Number of independent MPPTs	3	
PV strings per MPPT	2/2/1	
Max. input voltage per MPPT	1100	V
Max. input current per MPPT	25	A
Max. short-circuit current per MPPT	32	A
MPPT 1/2 voltage range	160-1100	V
MPPT 3 voltage range	80-800	V
Max. power per MPPT 1/2	12000	W
Max. power MPPT 3	8000	W
Max. DC input voltage	1100	V
Nominal DC input voltage	700	V
Startup voltage MPPT 1/2	160	V
Startup voltage MPPT 3	80	V
MPPT connectors	Original MC4-Evo 2	

Efficiency Parameters		
Maximum / European efficiency	98.3 / 97.1	%

Battery Connection		
BMS controller interface	RS485, CAN 2.0	
Battery module voltage range	160-800	V

Compliance with Standards		
IEC/EN 62109-1, IEC/EN 62109-2, EN 50438; IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, EN 61000-3-2/3/11/12, IEC 61851-1, IEC 61851-23:2014, IEC 61851-24, IEC 61851-25, ISO 15118; IEC 61850, IEC 62196, IEC 63110, UL 1741, VDE V 0126-1-1:2013-08, IEC 62196-1/2/3/3-1, OCPP 2.0.1, ISO15118-1/2/3/4/5/20/DIN 70121/70122, EN 50530, IEC 61727:2004, VDE AR N 4105		
Additional certificates available upon request.		

General Data	Value	Unit
Operational temperature range	-25 to +65	°C
Relative humidity range	0-95	%
Maximum operating altitude	3000 m above sea level	
Thermal management	Adaptive thermal cooling	
Ingress protection rating	IP54	
Protection class (according to IEC 62109-1) / Overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II	
Warranty	10 years	

EVSE DC Charging Parameters		
Maximum power	22000	W
Charging interfaces	CCS2	
Supported technologies	V2G, V2H, OCPP 2.0.1	
Parallel/series/bidirectional operation	Yes / yes / yes	
Output voltage range	150-800	V
Nominal output current per module	25	A
Maximum output current per module	28	A
Maximum output current per 2 modules	56	A

Communication Interfaces	
Wired: Phase 1: SG Ready, EEBus, Modbus, RS 485, Relay for §14a, OCPP, LAN, 8 IO ports Phase 2: Sunspec	
Wireless: Wi-Fi, Bluetooth, LTE, NFC	

Protection and Safety	
AC Area Circuit Protection: Type II AC Surge protection, EMC EMI / RF Shielded 3-Phase Filter with CM Choke	

Legal Notice: This document is a preliminary technical datasheet. The information contained herein is non-binding and may be subject to change. Only the finalized and officially released datasheet contains binding specifications.