

VVH

Hybrid Input Active Power Allocation DC charger



VVH consists of highly efficient DC-DC and AC-DC power conversion systems that enable charging electric vehicles (EVs) either using AC power from the grid or DC power from ESS. Together with embedded intelligent control, VVH not only supports different brands of EVs but also supports multiple EV charging with active power allocation.

Plug and Charge

Support a wide operating range of EV charging voltage.

High Performance

Isolated topology with peak efficiency up to 96%

Remote/On-site Monitoring

Remote monitoring with WiFi and mobile app

Product Specification

Input (AC)

Rated Voltage	400V AC, 3-phase
Input Voltage Range	380V \pm 20% AC, 3-phase
Input Current	120A per phase
Rated Output Grid Frequency	50/60 Hz
Power Factor	> 0.99
iTHD	< 3% (from 50% load)

Input (DC)

Rated Voltage	750V
Input Voltage Range	600V – 900V
Input Current	100A
Rated Output Grid Frequency	50/60 Hz

Output (DC)

Rated Power	80kW
Output Current	50A, max
Max. charging gun	4
Battery Voltage Range	200-1000V DC
Voltage Accuracy Load	< \pm 0.5%
Current Accuracy	< \pm 1% (@20-100% load)

Efficiency

Max. Efficiency	96 %
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Equipment Protection

Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Output Undervoltage Protection	Yes
Output Overpower Protection	Yes
Overtemperature Protection	Yes
Water Leakage Protection	Yes

General Data

Operating Temperature Range	-30 to +50°C, Derating at 64°C and above
Permissible Ambient Humidity	0 – 100 %
Permissible Altitude	2000 m
Ingress Protection (IP) Rating	IP 54
Remote Monitoring	Webpage
Communication	Wi-Fi, CAN
Type of Cooling	Water Cooling
Protocol	CCS2

Dimension



