

V2GWB22kW3P

V2G Wall Box



V2G Wall Box integrates bidirectional DC-AC/AC-DC power conversion systems, enabling both grid-to-battery charging and battery-to-grid power feeding. It delivers high-efficiency power conversion across a wide load range, ideal for bidirectional EV charging and discharging applications.

Easy Setup and Installation

Wide operating ranges for battery to feed power into grid and battery charging from grid.

IP54 rating.

High Performance

Isolated topology with peak efficiency up to 96%

Remote/On-site Monitoring

Remote monitoring with Wi-Fi and mobile app.

V2G: Next Generation of EV Charging



V2G offers bidirectional charging, capable of feeding car battery power back into the home and grid.

By connecting many V2G enabled cars together, a Virtual Power Plant (VPP) can be formed which provides an economic and environmentally friendly energy solution.

Product Specification

Input (AC)

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

Output (DC)

Rated Power	22k W
Output Current	50A, max
Output Frequency	50/60Hz
Battery Voltage Range	100–1000V DC
Voltage Accuracy Load	< \pm 0.5%
Current Accuracy	< \pm 1% (@20–100% load)

Efficiency

Max. Efficiency	96.00 %
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Equipment Protection

Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Output Undervoltage Protection	Yes
Output Overpower Protection	Yes

General Data

Operating Temperature Range	-30 to +50°C, Derating at 45°C and above
Permissible Ambient Humidity	0 – 100 %
Permissible Altitude	2000 m

Ingress Protection (IP) Rating	IP 54
Inverter Topology	Isolated
Remote Monitoring	Mobile Apps
Communication	Wi-Fi, Bluetooth
Cabinet Size (W x H x D)	700 mm x 480 mm x 199 mm (Excluding Connectors and Brackets)
Weight	37.5 kg
Type of Cooling	Forced Air Cooling
Mounting Method	Bracket Wall Mounted
Protocol	GB/T 20234

Dimension



Efficiency

		Iout				
Vout	Efficiency	6	10	20	25	30
	100	69.96	78.84	86.66	88.201	91.617
	200	89.703	92.709	92.448	92.979	93.417
	300	87.772	91.347	94.578	95.823	96.247
	400	84.574	88.878	96.291	96.368	96.23
	450	84.553	88.599	94.444	95.767	96.107
	600	92.269	94.651	96.039	95.314	94.095
	700	94.736	96.53	95.961	95.291	94.021
	800	91.993	96.359	95.971	95.378	95.033
	900	89.708	94.539	95.843	95.342	