



SO SMART. SO **Borochi**®

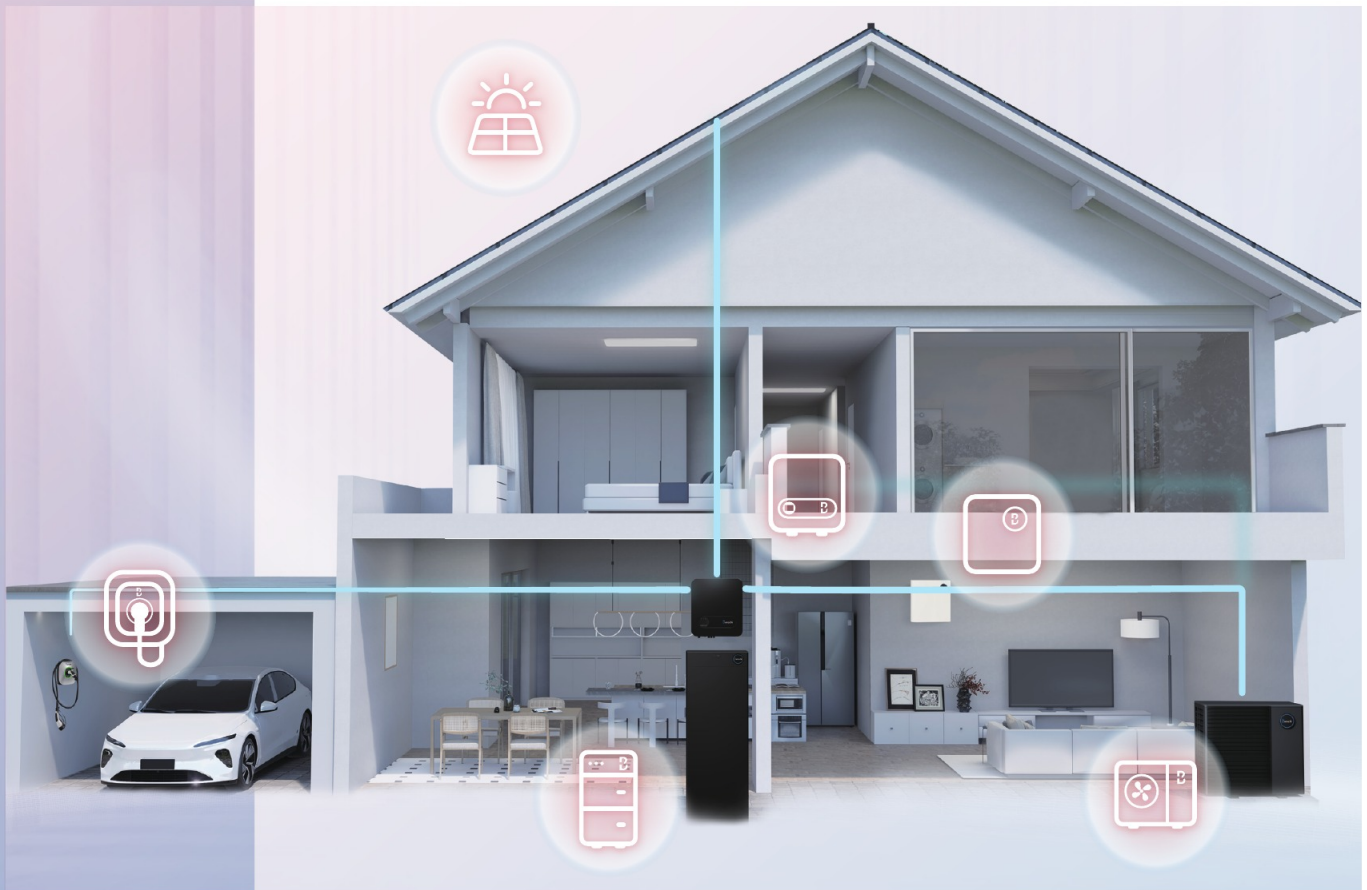


So **Smart**. So **Boro**chi.

Who We Are

Boroichi Climate Solutions GmbH is a Berlin-based CleanTech company dedicated to building integrated home energy systems for the European market.

Our solutions connect photovoltaic generation, energy storage, intelligent energy management, efficient heating, and electric mobility into one coherent system.



Rather than offering isolated products, Boroichi focuses on system-level design. We believe that energy independence can only be achieved when hardware, software, and operational logic are developed together.

Boroichi works closely with professional partners across planning, installation, and distribution. Together, we deliver energy systems that are practical to deploy, intuitive to use, and resilient in real-world conditions.



Borochi at a Glance

All Borochi products are designed and manufactured by dedicated local teams in our own production facilities, ensuring consistent quality control and continuous innovation.

Our system architecture is built to reduce complexity, which enables scalable deployment, predictable performance, and stable long-term partnerships across different markets and project types.

Compliance and Reliability

German Certifications

Grid Regulations

Data Protection Standards

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Our Vision



Now

The energy transition is reshaping how homes generate and use electricity and heat. However, many households still face fragmented systems that are difficult to understand, manage, and optimize. Borochi was founded to change this experience.

Next

We believe sustainable energy should enhance daily life, not complicate it. A home energy system should adapt to household routines, operate quietly in the background, and respond intelligently to changing conditions.

Future

Borochi's vision is a unified energy ecosystem that balances comfort, efficiency, and control. By treating the home as one integrated energy environment, we create the foundation for long-term energy independence without compromising reliability or convenience.



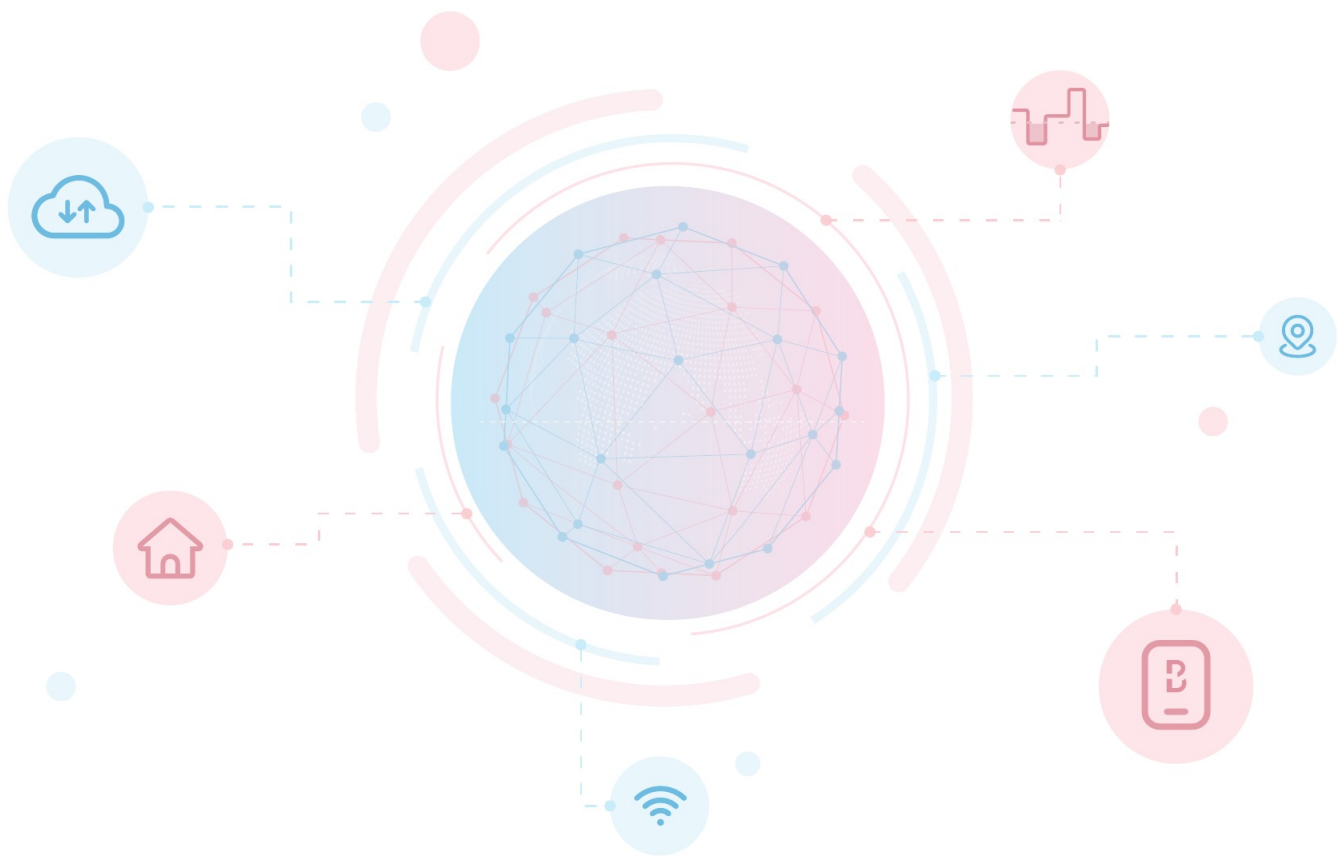
Energy Consumption

The screenshot displays the Solar Edge mobile application interface. At the top, the status bar shows the time as 13:50, signal strength, and battery level. The app header indicates the weather as 6°C Cloudy and the location as 'Home'. Below this, three summary cards show: 0.0 kWh Production (with a green up arrow), 25.6 kWh Consumption (with a red down arrow), and 1.3 € Savings (with a green up arrow). The central part of the screen features a house icon with solar panels, connected to a 'Solar' meter showing 0.0 kW. To the right, a 'Grid' meter shows 0.5 kW. Below the house, three appliance icons are shown: 'Wallbox' (0.0 kW, with a green up arrow and 9.1% charge), 'Household' (0.6 kW), and 'Heat Pump' (0.0 kW). At the bottom, two summary cards show: 0.0 kWh To Grid (with a blue down arrow) and 25.1 kWh From Grid (with a blue up arrow). The footer includes the text 'Today's Autarky' and a progress bar, along with standard mobile navigation icons.

Dynamic Tariff

A Hassle-Free Energy Solution

Delivering high-performance home energy systems requires more than high-quality hardware. It requires reducing friction across planning, installation, operation, and long-term support. Borochi is designed to simplify this entire process.



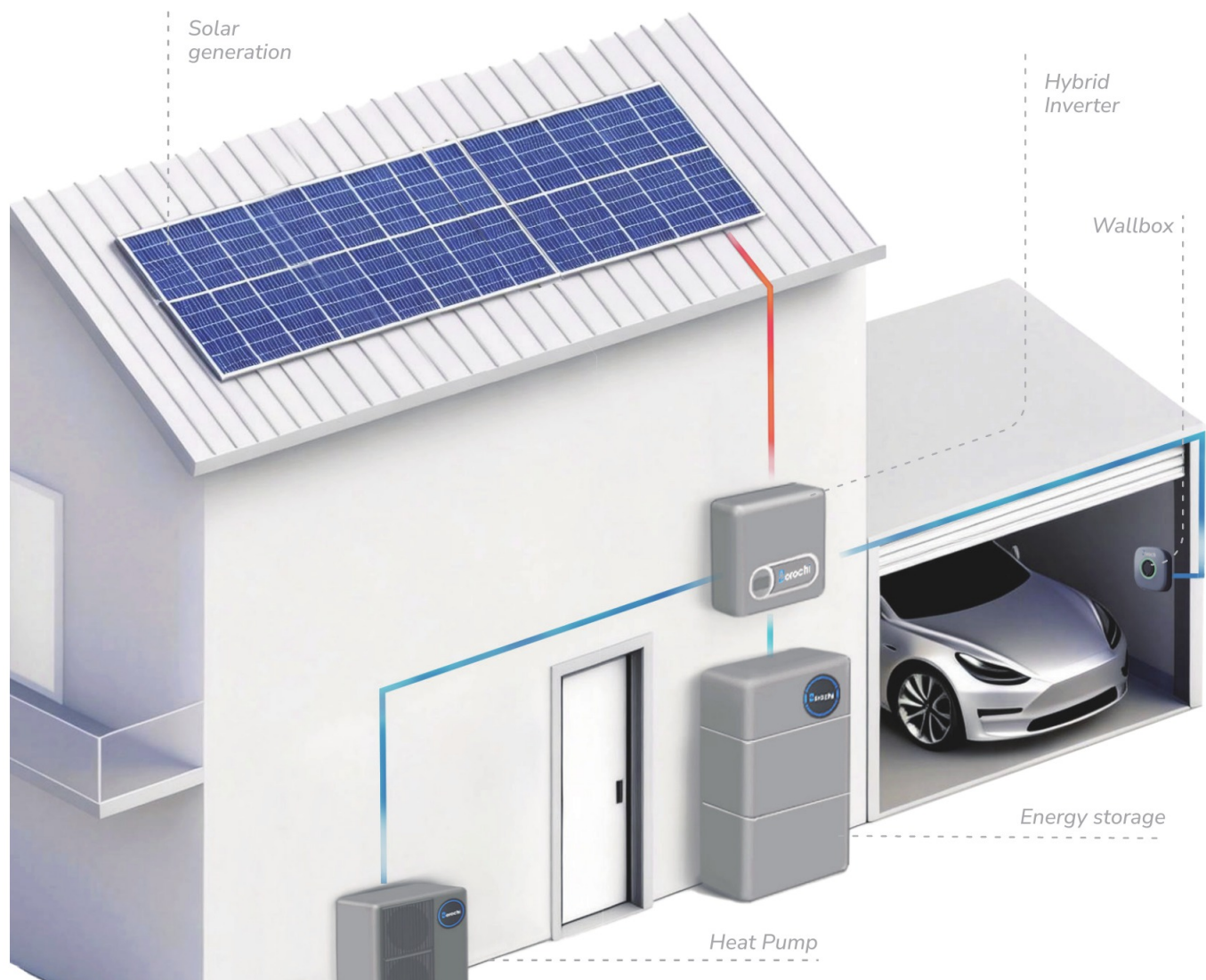
By combining hardware, software, and intelligent optimization into one integrated platform, Borochi reduces coordination effort and compatibility risks. Partners benefit from a unified system architecture that shortens installation time, simplifies commissioning, and minimizes troubleshooting.

End customers gain full transparency across energy flows, building trust and improving overall system satisfaction.

Borochi Home Energy System

The Borochi Home Energy System is an integrated ecosystem designed to generate, store, manage, and use energy intelligently. All components are engineered to work together as one coordinated system, rather than as disconnected devices.

At the system level, Borochi integrates solar generation, energy storage, intelligent control, heating, and electric mobility. This unified architecture improves energy efficiency, reduces operational complexity, and enhances system resilience.





Energy Storage & Hybrid Inverter

At the heart of the Borochi system lies the combination of modular energy storage and a hybrid inverter. Together, they enable higher self-consumption, reduced grid dependency, and reliable power availability during outages.

The modular storage architecture allows capacity expansion as household energy demand evolves. The hybrid inverter coordinates energy flow between photovoltaic generation, storage, household loads, and the grid.



Model	BRH008KH-B1	BRH010KH-B1	BRH012KH-B1	BRH015KH-B1
PV Input				
Recommended Max. PV Input Power [Wp]	10400	13000	15600	18750
Max. Input Voltage [V]		1000		
MPPT Voltage Range [V]		180 - 950		
Rated Voltage [V]		600		
Start-up Voltage [V]		200		
No. of MPP Trackers		2		
No. of PV Strings per MPPT	1/1		2/1	
Max. Input Current per MPPT [A]	15/15		30/15	
Max. Short-Circuit Current per MPPT [A]	18/18		36/18	
AC Output				
Rated Output Power [W]	8000	10000	12000	15000
Rated Output Current [A]	11.6	14.5	17.4	21.7
Max. Output Current [A]	12.7	16	19	23.8
Max. Apparent Output Power [VA]	8800	11000	13200	16500
Rated Output Voltage [V]		220/380; 230/400		
Rated Grid Frequency [Hz]		50/60		
Power Factor [cosφ]		1/0.8 (leading) - 0.8 (lagging)		
THDi (@Rated Output Power)		< 3%		
AC Input (Grid)				
Max. Apparent Input Power [VA]	8800	11000	13200	16500
Max. Input Current [A]	12.7	15.9	19.1	23.8
Rated Output Voltage [V]		220/380; 230/400		
Rated Grid Frequency [Hz]		50/60		
Battery				
Battery Module Type	Lithium Iron Phosphate (LiFePO4)			
Battery Voltage Range [V]	150 - 600			
Max. Charging/Discharging Current [A]	25			
Battery Communication	CAN			
AC Output (Off-Grid)				
Rated Output Power [W]	8000	10000	12000	15000
Rated Output Voltage [V]		220/380; 230/400		
Rated Output Frequency [Hz]		50/60		
Rated Output Current [A]	11.6	14.5	17.4	21.7
THDi (@Rated Output Power)		< 3%		
Switch Time [ms]		< 10		
Peak Apparent Power, Duration [VA, s]	12000, 30	15000, 30	18000, 30	22500, 30
Efficiency				
Max. Efficiency	98%			
Euro Efficiency	97.3%			
Charging/Discharging Efficiency of the Battery	98.5%@Charge / 97.0%@Discharge			
Protection				
DC-Switch	Integrated			
Insulation Resistance Detection	Integrated			
Input Reverse Polarity Protection	Integrated			
Anti-island Protection	Integrated			
Residual Current Monitoring	Integrated			
Overtemperature Protection	Integrated			
DC Surge Protection	Integrated (Type II)			
AC Surge Protection	Integrated (Type II)			
General Data				
Dimensions (W×H×D) [mm]	498 × 563 × 200			
Weight [kg]	28			29
Display	LCD / Web / App			
Communication	WiFi / RS485 / LAN			
Operating Temperature Range [°C]	-25 to +60			
Relative Humidity	≤ 95%, non-condensing			
Operation Altitude [m]	≤ 4000 (Derating above 2000)			
Self Consumption (night) [W]	< 15			
Topology	Transformerless			
Cooling Concept	Natural Convection			Smart Fan Cooling
Ingress Protection (IP) Rating	IP66			
Warranty	10 Years			
Certification	VDE 4105; EN IEC 62109 1/2; EN IEC 61000 6 1/3; CE; RoHS			

Model	BOR-5120-H2	BOR-5120-H3	BOR-5120-H4
Performance			
Number of Battery Modules	2	3	4
Rated Capacity [kWh]	10.24	15.36	20.48
Usable Capacity [kWh]	9.21	13.81	18.41
Rated DC Voltage [V]	204.8	307.2	409.6
Operating Voltage Range [V]	160 - 233.6	240 - 350.4	320 - 467.2
Rated Charging/Discharging Power [kW]	5.12	7.68	10.24
Rated Charging/Discharging Current [A]		25	
Max. Charging/Discharging Current [A]		50	
Max. Depth of Discharge (DoD)		90%	
General Data			
Charging Temperature Range [°C]		0 to +50	
Discharging Temperature Range [°C]		-20 to +50	
Recommended Storage Temperature [°C]		-30 to +60	
Relative Humidity		≤ 95%, non-condensing	
Operating Altitude [m]		≤4,000 (Derating above 2,000)	
Weight [kg]	146.5	211.4	276.6
Dimensions (W×H×D) [mm]	600 × 1240 × 265	600 × 1760 × 265	600 × 2280 × 265
Ingress Protection (IP) Rating		IP65	
Installation		Floor Installation	
Cooling		Natural Convection	
Battery Technology		Lithium Iron Phosphate (LiFePO ₄)	
Display		SoC, Operating Status	
Communication		CAN	
Warranty		10 Years (≥ 80% usable capacity)	
Certification		IEC 60730-1; IEC 62619; EN IEC 62477; EN 62477-1; EN IEC 61000-6-1/2/3/4; UN 38.3; CE; CB; RoHS	



1 × BOR-5120-H
2 × BOR-5120



1 × BOR-5120-H
3 × BOR-5120



1 × BOR-5120-H
4 × BOR-5120



Heat Pump

The Borochi heat pump provides reliable heating, cooling, and domestic hot water with high efficiency. Designed for both new buildings and renovation projects, it supports a wide range of installation scenarios.

Using natural refrigerant R290 and intelligent control logic, the heat pump integrates seamlessly into the Borochi energy ecosystem.

Model		BOR008HP (BEHR0080NNSP01)	BOR010HP (BEHR0100NNSP01)	BOR016HP (BEHR0160NNSP01)
Heating Mode				
Ambient Temperature: DB7°C/WB6°C	Heating Capacity [kW]	8.3	10	15.5
Water Temperature Inlet/Outlet: 30/35°C	Power Consumption [kW]	1.65	2.1	3.2
	COP	5.0	4.8	4.8
Ambient Temperature: DB2°C/WB1°C	Heating Capacity [kW]	8	9.6	15.5
Water Temperature Inlet/Outlet: 30/35°C	Power Consumption [kW]	2.1	2.6	4.3
	COP	3.8	3.7	3.6
Ambient Temperature: DB-7°C/WB-8°C	Heating Capacity [kW]	7.8	9.4	15
Water Temperature Inlet/Outlet: 30/35°C	Power Consumption [kW]	2.5	3.1	5
	COP	3.1	3	3
Ambient Temperature: DB-10°C/WB-11°C	Heating Capacity [kW]	7.6	9	15
Water Temperature Inlet/Outlet: 30/35°C	Power Consumption [kW]	2.7	3.3	5.6
	COP	2.8	2.7	2.7
Ambient Temperature: DB7°C/WB6°C	Heating Capacity [kW]	7.8	9.5	15
Water Temperature Inlet/Outlet: 50/55°C	Power Consumption [kW]	2.5	3.1	5.1
	COP	3.1	3.1	2.9
Cooling Mode				
Ambient Temperature: DB35°C/WB24°C	Cooling Capacity [kW]	6.7	7.4	13.5
Water Temperature Inlet/Outlet: 12/7°C	Power Consumption [kW]	2.1	2.5	5
	EER	3.2	3	2.7
Ambient Temperature: DB35°C/WB24°C	Cooling Capacity [kW]	8	9	15
Water Temperature Inlet/Outlet: 23/18°C	Power Consumption [kW]	2.2	2.5	4.2
	EER	3.7	3.6	3.6
Efficiency				
Energy Efficiency Class	EN14825, W35°C	A+++		
	EN14825, W55°C	A+++		
SCOP	EN14825, W35°C	4.87	4.85	4.71
	EN14825, W55°C	3.83	3.68	3.83
SEER	EN14825, W7°C	4.3	4.4	4.4
	EN14825, W18°C	4.6	4.7	4.5
General Data				
Refrigeration Cycle	Refrigerant Type	R290		
	Refrigerant Content [kg]	0.89	0.89	1.25
	ODP	0		
	GWP	3		
	CO ₂ Equivalent [kg]	2.67	2.67	3
	Max. Pressure of the Refrigerant System [MPa]	3		
	Min. Pressure of the Refrigerant System [MPa]	0.1		
Fan	Compressor Type	Rotary Compressor (Inverter)		
	Quantity	1	1	2
	Fan Airflow [CMH]	2900	3000	6500
	Rated Power [W]	60	65	100
Water Side Heat Exchange	Type	Plate Heat Exchanger		
	Water Pressure Drop [kPa]	18	18	20
	Connections (flow/return) [mm]	DN25	DN25	DN32
	Rated Power of the Circulation Pump [W]	25	28	40
	Water Flow [L/s]	0.38	0.48	0.75
Basic Functions	Heating / Cooling / Domestic Hot Water (DHW)			
Additional Functions	SG-Ready / WiFi / App			
Rated Voltage [Ph/V/Hz]	1-phase / 220-240 / 50	1-phase / 220-240 / 50	3-phase / 380-415 / 50	
Maximum Starting Current [A]	25	28	38	
Overcurrent Protection [A]	20			
Ingress Protection (IP) Rating	IPX4			
Operating Ambient Temperature Range [°C]	-20 to +45			
Power of the Auxiliary Electric Heating [kW]	3			
Maximum Water Outlet Temperature [°C]	75			
Sound Pressure Level, EN 12102-A7/W55 (3m) [dB(A)]	46	46	55	
Sound Power Level, EN 12102-A7/W55 [dB(A)]	59	59	68	
Sound Power Level, Silent Mode [dB(A)]	48	48	57	
Net Dimensions (W×H×D) [mm]	1100 × 1025 × 400	1100 × 1025 × 400	1100 × 1575 × 400	
Net Weight [kg]	120	120	170	
Warranty	2 years (extendable to 5 years at no extra charge with cloud connection)			
Certification	EN IEC 60335-2-40; EN 60335-1; EN 62233; EN IEC 55014-1; EN IEC 55014-2; EN 61000-3-11; EN IEC 61000-3-12; EN 12102-1; EN 14511; EN 14825; CE; RoHS			



Wallbox

The Borochoi Wallbox connects electric mobility with household energy flows. Dynamic load balancing improves safety and stability, while intelligent scheduling enables charging based on energy availability.

Electric mobility becomes a natural extension of the home energy system, intelligently aligned with generation, storage, and consumption.



Model	BOR-AC022-01 CE
Electrical Data	
Max. Charging Power [kW]	22
Rated Current [A]	6 - 32 (adjustable)
Rated Voltage [V]	230 (1-phase) / 400 (3-phase)
Rated Frequency [Hz]	50 / 60
Measurement Accuracy	±2%
Standby Power [W]	< 5
Earthing Systems	TN, TT, IT
Charging Connector	Type 2 Socket
Interface and Communication	
External Control	User App, Installer App
Local Control	RFID
Status Indicator	RGB Dynamic LED
Communication	Bluetooth® LE 4.2, WiFi (2.4 GHz)
Platform Protocol	OCPP 1.6 JSON
General Data	
Charging Modes	Immediate, Smart, PV Priority
Operating Temperature [°C]	-30 to +50
Storage Temperature [°C]	-40 to +85
Relative Humidity	≤ 95%, non-condensing
Operating Altitude [m]	≤ 2000
Weight [kg]	3
Dimensions (W×H×D) [mm]	260 × 260 × 112
Ingress Protection (IP) Rating	IP54
Impact Protection (IK) Rating	IK10
Overvoltage Category	CAT III
Insulation Class	Class I
Flammability Class	UL 94 V-0
Load Balancing	Supported
Phase Balancing	Supported
Material	Plastic and Aluminium Alloy
Installation Location	Indoor / Outdoor
Mounting Type	Wall-mounted / Pedestal-mounted
Cooling	Natural Convection
Residual Current Protection (RCD)	Type A (30 mA) required + DC 6 mA integrated
Basic Electrical Protection	Over/undervoltage protection; Overload protection; Short-circuit protection; Surge protection (lightning protection); Protective earth monitoring; CP monitoring; Temperature protection
Certification	EN IEC 61851-1; IEC 62955; CE; CB; UKCA; RoHS
Warranty	2 Years

So **Smart**. So **B**orochi.

Why Borochi

Borochi is built for households and partners who value intelligence, reliability, and long-term system performance.

01

System-first design philosophy

02

Unified hardware and software ecosystem

03

Intelligent optimization and regulatory alignment

04

Designed and engineered in Germany

Built for Long-Term Partnerships

Borochi is built for scalable, long-term cooperation with installers, wholesalers, and project partners. We understand that sustainable growth depends on reliable products, structured processes, and a consistent brand story.

Our go-to-market approach emphasizes clarity and stability through clear product positioning, standardized workflows, and transparent after-sales structures.

Borochi invests continuously in brand visibility across Europe.



Contact

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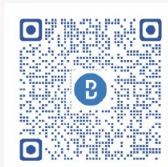
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If you are interested in installing, distributing,
or integrating Borochoi solutions, we welcome a conversation.