



Energy from the Sun Smiles from LumenHaus

Clean, Affordable, Future-ready



LumenHaus GmbH

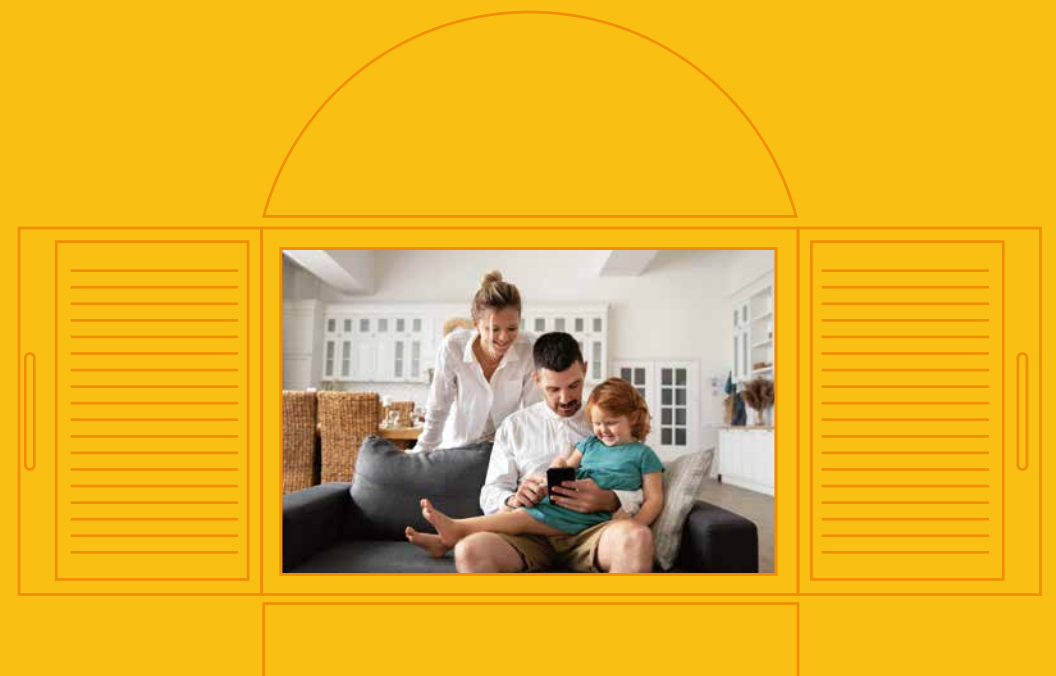
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www.lumenhaus.com





Make your home energy independent — with LumenHaus!



Break free from rising energy costs and take control of your future with true energy independence. By effortlessly joining the clean energy movement, you not only reduce your environmental impact but also gain more time for what truly matters—your family.

We are LumenHaus – Your Energy Family



A Home.

LumenHaus is an innovative platform that drives the energy transition through decentralized, community-based, and sustainable energy supply. We offer easy-to-install, affordable, and efficient one-stop energy solutions and provide end-to-end services to customers worldwide, from consultation to installation and ongoing support. Partners and customers alike benefit from the advantages of the platform, which enables a sustainable and convenient energy future.

A Platform.

A World.

Our Vision

To become the world's largest one-stop platform for green & smart home energy solutions and the world's leading operator of virtual power plants.

UNIFIED

Organized in a decentralized and community-based way

ENERGY

Affordable and sustainable energy

LUMEN

LOCAL

Local and sustainable energy supply

MEMBERSHIP

Part of a strong community

NET-ZERO

CO2-neutral energy consumption

Our Values

Innovation

Constantly striving for breakthroughs in technology and design to improve sustainability and performance.

Sustainability

Commitment to reducing global dependence on electricity from dirty production and facilitating access to sustainable energy solutions for all households.

Excellence

Striving for the highest standards in all areas of the business, from product design to customer service.

Integrity

Honesty and transparency in our dealings with customers, employees and stakeholders.

A Better Future Starts at Home.

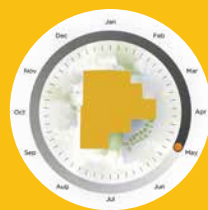
Ready to start your energy transition? LumenHaus makes it easy.

Analyze roof dimensions and architecture using high-resolution satellite images and computer vision algorithms.

Estimating sunshine potential through weather forecasts and sunshine simulations.

Recommendation system provide solar and energy backup solutions based on demand and energy price forecasts.

In the future, financial models will be provided to help users analyze cost and long term benefits, and compare different payment methods.



Four Simple Steps to Kickstart Your Green Energy Journey



Step 1

Start Online

Visit lumenhaus.com and click "Start Energy Transition." Enter basic information about your home to receive a custom energy plan.



Step 2

Free Consultation

Our advisor will call to confirm your needs and explain your tailored offer — no cost, no pressure.



Step 3

Home Visit

If needed, a technician visits your home to finalize your setup based on actual conditions.



Step 4

Installation

Our Lumenator team installs your system and connects it to "my LumenHaus App" for smart, clean energy management.

Tailored for Your Home. Powered by AI.

Make your home smarter and more sustainable
with our integrated energy system.

- 🏠 **Easy Installation:** Our solution integrates seamlessly into your home.
- 🏠 **Full Control:** Monitor your energy consumption anytime, anywhere.
- 🏠 **Save Money:** Start saving instantly with intelligent energy management.
- 🏠 **Safe and Reliable:** Cutting-edge technology for a secure home.
- 🏠 **Sustainable and Energy-Efficient:** Good for the environment and your wallet.
- 🏠 **User-Friendly:** Simple and intuitive to use.
- 🏠 **Elegant and Modern:** A home where you feel comfortable.



LumenHaus Cloud



myLumenHaus App

SunCatcher
All-Black Solar Panel

SunSaver
All-in-One ESS

SunCharger
Smart EV Charger

SunHeater
Eco-Efficient Heat Pump








Power Bank for Your Home SunSaver

The energy storage system
that saves you money.



red dot winner 2025



-  All-in-One Design
-  Stackable and Modular Expandability
-  Easy and Quick Installation
-  Intelligent AI Prediction and Optimization
-  Integration of Cloud, Edge, and Endpoint



Technical Data

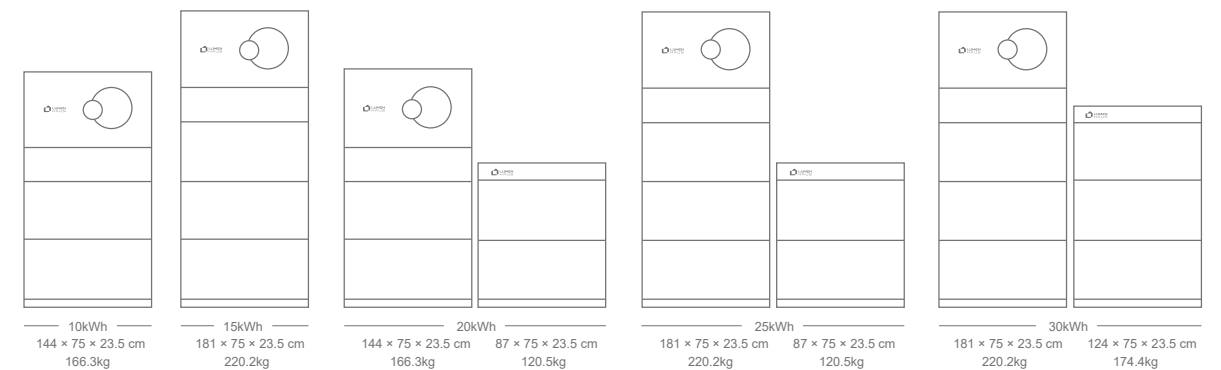


General Specifications	
Rated Output Power	12kW
Normal Capacity	10/15/20/25/30kWh(95%DoD)
Battery Type	Li-ion(LFP)
Cooling Concept	Natural cooling
Noise Emission	≤35dB
Degree of Protection	IP66
Warranty	10 Years

Hybrid-Wechselrichter	
Rated AC Voltage	220/380, 230/400, 3/N/PE, 3/PE
Max. Recommended PV Array Power	19.2kW
Max. Input Current (Input PV / Input PV2)	2×20A
Max. DC Voltage	1100V
Max. Short Circuit Current	40A
No. of MPP Trackers	1+1
MPPT Voltage Range	150~1000V
Max. Charge / Discharge Power	12kW
Rated Grid Frequency	50/60Hz
Backup Power	<20ms
Communication	Ethernet/WiFi/4G/Bluetooth
Operating Temperature Range	-18°C~51°C
Allowable Relative Humidity Range	5%~95%
Net Weight	39kg
Dimension (W x H x D)	750 × 235 × 450 mm

Protection	Battery Soft-Start Protection
	DC Reverse Polarity Protection
	Anti-Islanding Protection
	Surge Protection
	AC Overcurrent Protection
	AC Overvoltage Protection

Batterie	
Nominal Capacity	5kWh
Usable Energy	4.75kWh
Depth of Discharge	95%
Nominal Voltage	102.4V
Max. Charge Current	25A
Max. Discharge Current	40A
Cycle Life	8000
Dimension (W x H x D)	750 × 235 × 360 mm
Weight	54kg
System Battery Quantity	2~6
Storage Temperature	-20°C~35°C
Operating Temperature Range	-18°C~51°C
Charging Temperature	-18°C~51°C
Installation	Floor mounted





Aesthetically Designed Solar Panel SunCatcher

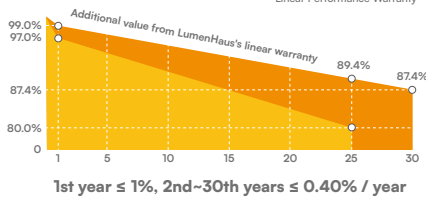
The sun-powered solution – efficient and elegant.

- Outstanding and Sleek Appearance Design
- Higher Efficiency and Power Generation
- Excellent Anti-PID Performance Guarantee



Warranty

- Standard Module Performance Warranty
- LumenHaus N Type Mono Module Linear Performance Warranty



Linear power output warranty



Guarantee on product material and workmanship



Technical Data







Electrical Specifications					
Module Type	LH-NR48TBH440GL/GB				
STC/NOCT	STC	NOCT			
Maximum Power -Pmp(W)	440	333			
Open Circuit Voltage -Voc (V)	35.29	33.83			
Short Circuit Current -Isc(A)	15.79	12.69			
Maximum Power Voltage -Vmp(A)	29.38	27.48			
Maximum Power Current -Imp(V)	14.98	12.10			
Module Efficiency STC-η(%)	22.0%				
Power Tolerance(W)	0-+3%				
Pmax Temperature Coefficient	-0.30%/°C				
Voc Temperature Coefficient	-0.22%/°C				
Isc Temperature Coefficient	+0.042%/°C				
Fire Performance	Typ 29 (UL)				
Mechanical Specifications		Curve			
External Dimension 1762 × 1134 × 30 mm / 69.37 × 44.65 × 1.18inch					
Weight	24.5kg/54.01lbs				
Solar Cells	N-Type Mono-crystalline (96pcs)				
Front Glass/Back Glass	2.0mm/2.0mm(0.08inch)				
Frame	Anodized aluminium alloy				
Junction Box	IP68, 3 diodes				
Cable Length (Including Connector)	4,0 mm²(12AWG), Portrait: 200mm(+)/400mm(-); Or customized				
Connector	MC4 Compatible				
Power Bifaciality*	80%±10%				
Application Conditions		Physical Characteristics			
Maximum System Voltage	1500VDC				
Maximum Series Fuse Rating	30A				
Operating Temperature	-40~+85°C				
Nominal Operating Cell Temperature	45±2°C				
Maximum Mechanical Load	5400Pa/2400Pa				
Hail Protection	Withstands hailstones up to 25mm in diameter at speeds of up to 23m/s.				
Packing Manner		<div><div>Units: mm (Zoll)</div><div>Tolerance:</div><div>Length: +2 mm</div><div>Width: +2 mm</div><div>Height: ±1 mm</div><div>Hole: ±1 mm</div></div> <div><div>* The above drawing is a graphical representation of the product.</div><div>For engineering quality drawings please contact LumenHaus GmbH.</div></div>			
Container	40'HQ				
Pieces per Pallet	36				
Size of packing (mm/inch)	1785 × 1130 × 1264 / 70.28 × 44.49 × 49.76				
Weight of packing (kg/lbs)	921/2030.46				
Pieces per Container (Normal/Weight-limited area)	936/720				



**Smart EV Charger
SunCharger**

Drive easy, green,
and super affordably.

-  Universal Compatibility
with Most EV Brands
-  Extremely Safe and Reliable
-  Effortless Management
with the myLumenHaus App
-  Adaptable, Fast, and Easy Installation



Technical Data

Specification	Model	11kW		22kW	
		LH-CCH-TA11KO1CE		LH-CCH-TA22KO1CE	
Input	Power Supply	3P+N+PE			
	Rated Voltage	400V AC			
	Rated Current	16A		32A	
	Frequency	50/60Hz			
Output	Output Voltage	400V AC			
	Max. Current	16A		32A	
	Rated Power	11kW		22kW	
User Interface	Charging Outlet	Type 2 cable			
	LED Indicator	Green/Blue/Red/Orange/White			
	RFID Reader	Mifare ISO/IEC 14443A			
	LCD Screen	No			
	Authentication/Start	Plug & Play/ RFID card/ APP			
Communication	WiFi	Yes			
	Bluetooth	Yes			
	4G	No			
	Ethernet	Yes			
	RS485	Yes (Load Balancing or EMS Interface)			
	Protocol	OCPP1.6J (OCPP2.0.1 optional)			
Features	RCD	30mA Type A+6mA DC			
	Degree of Protection	IP55			
	Electrical Protection	Over Current Protection, Residual Current Protection, Ground Protection, Surge Protection, Over/Under Voltage Protection, Over Temperature Protection			
	Certification Standard	EN/IEC 61851-1: 2017, EN/IEC 61851-21-2: 2018, IEC 62955			
	Certification	CE			
	Dynamic Load Balance	Smart Meter (optional)			
	Auto Charging Recovery	Yes (within 600 seconds)			
	Warranty	3 years			
Environment	Enclosure Material	PC			
	Installation	Wall-mount/Floor-standing			
	Working Temperature	-30°C~+50°C			
	Working Humidity	5%~95% (relative)			
	Altitude	<2000m			
Dimension	Cable Length	5m			
	Product Dimension	317 × 198 × 93 mm(H × W × D)			
	Weight	3.5kg(net)/ 4.42kg(gross)		4.5kg(net) / 5.42kg(gross)	
App	Charging Current Adjustment	Yes			
	Charging Status	Current, Voltage, Power, Charged Energy, Charging Time			
	RFID Management	Yes			
	Scheduled Charge	Yes			



Eco-Efficient
Heat Pump
SunHeater

Efficient and Stylish – for Cozy
Warmth Throughout Your Home



- Whisper-Quiet Comfort
- A+++ Energy Efficiency
- Unmatched Heating Performance
- Seamless Smart Integration
- Real-Time Control with the myLumenHaus App
- Precise Heating with Zone Control



Technical Data



Model name			8kW	10kW	12kW	14kW	16kW
Model			LH-HHP-TE8K01CE	LH-HHP-TE10K01CE	LH-HHP-TE12K01CE	LH-HHP-TE14K01CE	LH-HHP-TE16K01CE
Power Supply		V/Ph/H	380-415/3/50				
Heating A7W35	Capacity	kW	8.4	10.0	14.9	16.2	17.8
	Rated Input	kW	1.68	2.08	3.33	3.74	4.25
	COP		5.0	4.8	4.5	4.3	4.2
Heating A7W55	Capacity	kW	7.8	9.5	14.7	15.8	17.2
	Rated Input	kW	2.36	2.92	3.42	3.86	4.38
	COP		3.3	3.3	4.3	4.1	3.9
Cooling A35W7	Capacity	kW	8.3	10.0	13.0	14.8	16.2
	Rated Input	kW	1.61	2.11	2.77	3.43	4.28
	EER		5.2	4.8	4.7	4.3	3.9
Cooling A35W18	Capacity	kW	7.5	8.9	12.2	14.2	16.2
	Rated Input	kW	2.18	2.74	2.97	3.63	4.36
	EER		3.5	3.3	4.1	3.9	3.7
Seasonal Space Heating Energy Efficiency Class7	LWT bei 35°C		A+++	A+++	A+++	A+++	A+++
	LWT bei 55°C		A+++	A+++	A+++	A+++	A+++
SCOP6	LWT bei 35°C		5.15	5.15	4.98	4.94	4.91
	LWT bei 55°C		3.88	3.93	3.84	3.83	3.80
Water Pump	Pump Head	m	9				
	Max. Flow	m³/h	4.5				
	Adapter Diameter		DN25				
Sound Pressure Level	Monobloc Unit	dB(A)	48	49	46	47	47
Sound Power Level	Monobloc Unit	dB	57	57	57	57	58
Packed Dimensions (WxDxH)	Monobloc Unit	mm	1355 × 545 × 1210		1355 × 545 × 1210		
Body Dimensions (WxDxH)	Monobloc Unit	mm	1280 × 450 × 1040		1280 × 450 × 1040		
Net Weight	Monobloc Unit	kg	140		154		
Gross Weight	Monobloc Unit	kg	153		167		
Operating Temperature Range	Cooling	°C	-5~48				
	Heating	°C	-25~35				
	DHW(tank)	°C	-25~43				
Setting Water Temperature Range	Cooling	°C	5~25				
	Heating	°C	25~80				
	DHW(tank)	°C	30~75				
Water Circuit	Piping Connections	inch	G1"BSP				
	Safety Valve Set Pressure	MPa	0.3				
	Flow Switch	m³/h	0.6				
	Expansion Tank Volume	L	5				
	Capacity of The Back-Up Heater	kW	9				
Stuffing Quantity	40H/40/20	Unit	68/33/16				

myLumenHaus App

Smart, green, and secure – Energy at your fingertips.



AI-Driven Intelligence for Everyday Life

Lumi – Your Personalized Energy Assistant

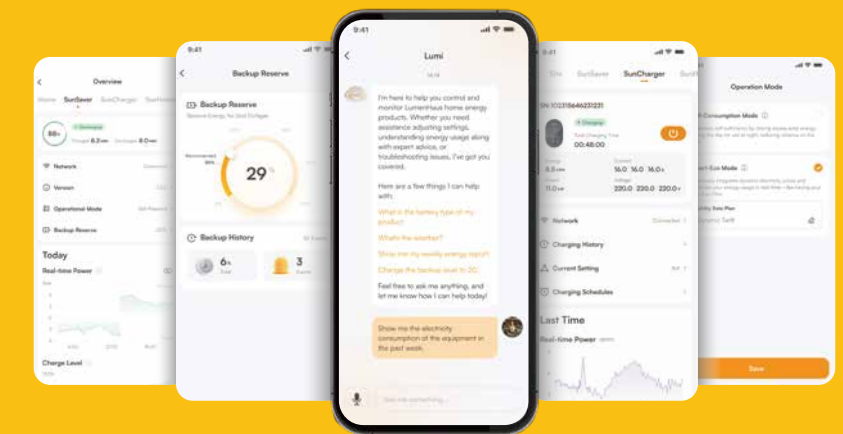
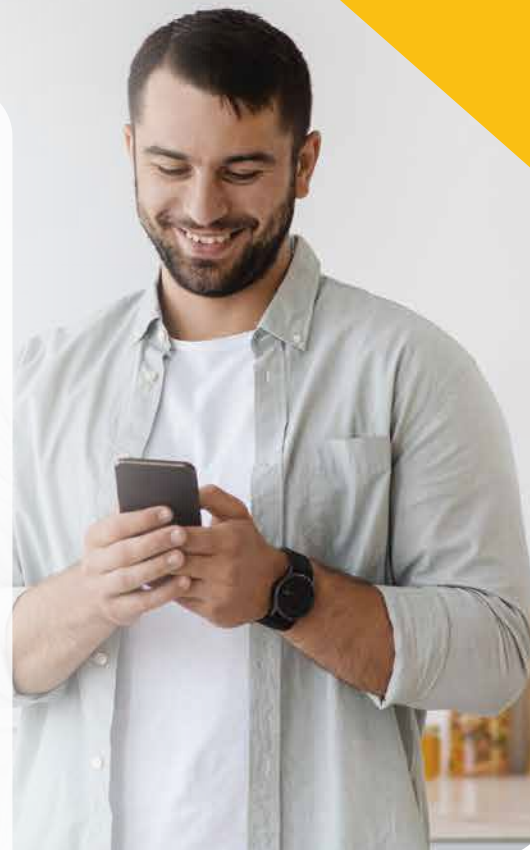
Lumi, your AI assistant, understands simple commands in multiple languages. Just ask, and Lumi will quickly help you manage your energy devices or switch smart home settings with ease.

Forecast Energy Demand

Learn your habits to predict your household's energy needs, offering tailored and personalized recommendations for your home energy use.

Maximize Energy Savings

Automatically adapt to your energy plan—store energy when prices are low, use it when prices rise, and receive smart tips to optimize solar energy and reduce costs.



Your Smart Home, Always Connected

Monitor and control all your energy devices remotely, giving you peace of mind wherever you are.

Your Green Home, Effortless Savings

Optimize solar energy use and schedule off-peak consumption to save on bills while living sustainably.

Your Intelligent Home, Automated for You

SmartEco Mode connects all your devices and optimizes energy usage based on real-time electricity tariffs from your energy plan—like having a smart energy manager in your pocket.

Your Secure Home, Always Protected

Rest easy with robust data security, protecting your information and smart home systems.



GET IT ON
App Store



Download on the
Google Play


Got questions? We understand.

We're here for you – personal, local, and right in your region.
Get expert advice with no obligation.



**Become the Hero of Your
Energy Transition —
You're Closer Than You Think.**



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