



Energy from the Sun Smiles from LumenHaus

Clean, Affordable, Future-ready



LumenHaus GmbH

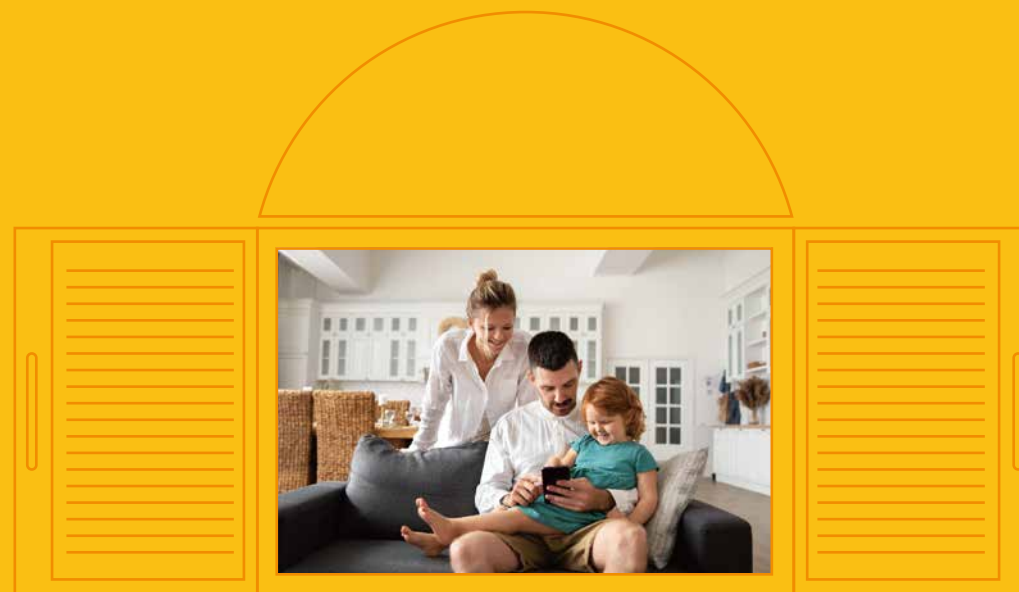
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www.lumenhaus.com





Make your home energy independent — with LumenHaus!



Break free from rising energy costs.
Gain true independence.
Join the clean energy movement – effortlessly.
More time for you and 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

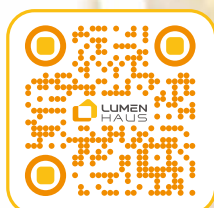
Striving for the highest standards in all areas of the business, from product design to customer service.

Integrity

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

A Better Future Starts at Home.

And on LumenHaus.com



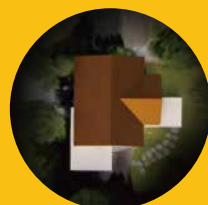
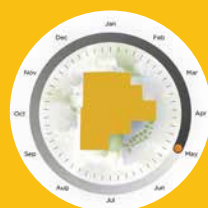
Ready to start your energy transition? LumenHaus makes it easy.

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 info 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.

All-in-One. All for Your Home.

Make your home smarter and more sustainable
with our all-in-one energy solution!

- 🏠 **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.





Power Bank for Your Home SunSaver

The energy storage system
that saves you money.



- 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

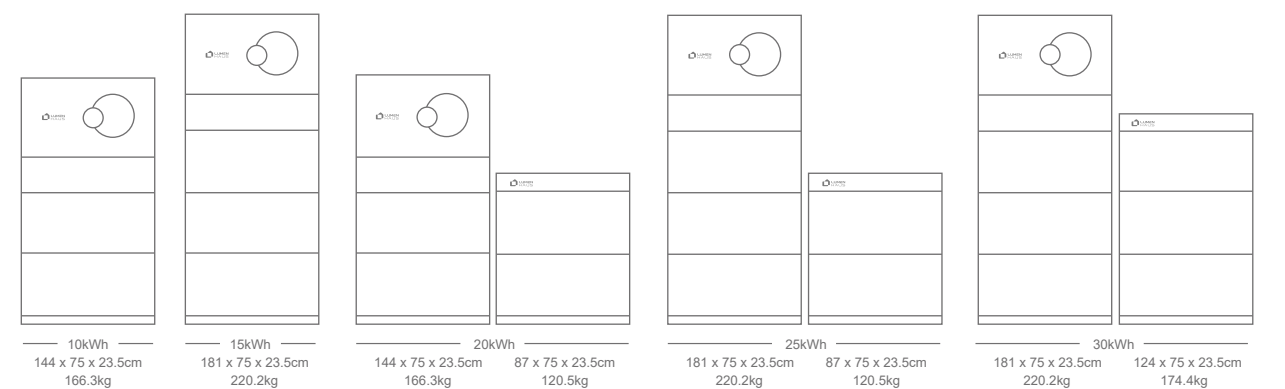
Rated Output Power	12kW
Normal Capacity	10/15/20/25/30kWh(95%DoD)
Battery Type	Li-ion(LFP)
Cooling Concept	Natural cooling
Noise Emission	≤35dB
Degree of Protection	IP66
Warranty	10 Years

Hybrid Inverter

Rated AC Voltage	220/380, 230/400, 3/N/PE, 3/PE		
Max. Recommended PV Array Power	19.2kW	Rated grid Frequency	50/60Hz
Max. Input Current (Input PV / Input PV2)	2x20A	Backup power	<20ms
MaxDC Voltage	1100V	Communication	Ethernet/WiFi/4G/Bluetooth
Max. Short Circuit Current	40A	Operating temperature range	-18°C~51°C
No. of MPP Trackers	1+1	Allowable relative humidity range	5%~95%
MPPT Voltage Range	150~1000V	Net weight	39kg
Max. Charge / Discharge Power	12kW	Dimension (W x H x D)	750x235x450mm
Protection	Battery soft -start protection		
	DC Reverse polarity protection		
	Anti-Islanding protection		
	Surge protection		
	AC overcurrent protection		
	AC overvoltage protection		

Battery

Nominal Capacity	5kWh	Dimension (W x H x D)	750x235x360mm
Usable Energy	4.75kWh	Weight	54kg
Depth of Discharge	95%	System battery quantity	2~6
Nominal Voltage	102.4V	Storage temperature	-20°C~35°C
Max. Charge Current	25A	Operating temperature range	-18°C~51°C
Max. Discharge Current	40A	Charging temperature	-18°C~51°C
Cycle Life	8000	Installation	Floor mounted

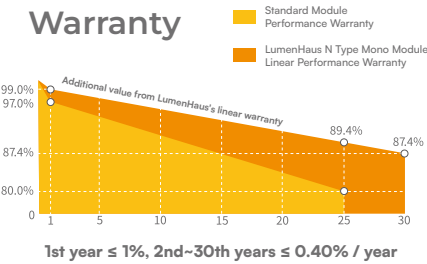




Aesthetically Designed Solar Panel SunCatcher

The sun-powered solution – efficient and elegant.

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



Technical Data



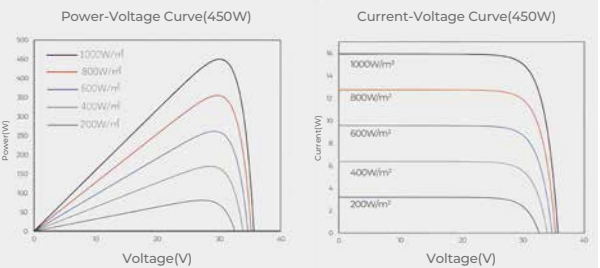
Electrical Specifications

Module Type	LH-NR48TBH440GL/GB	
STC/NOCT	STC	NOCT
Maximum Power -P _{mp} (W)	440	333
Open Circuit Voltage -V _{oc} (V)	35.29	33.83
Short Circuit Current -I _{sc} (A)	15.79	12.69
Maximum Power Voltage -V _{mp} (V)	29.38	27.48
Maximum Power Current -I _{mp} (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

External Dimension	1762 x 1134 x 30mm/69.37 x 44.65 x 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 mm ² (12AWG), Portrait: 200mm(+)/400mm(-); Or customized
Connector	MC4 Compatible
Power Bifaciality*	80%±10%

Curve



Application Conditions

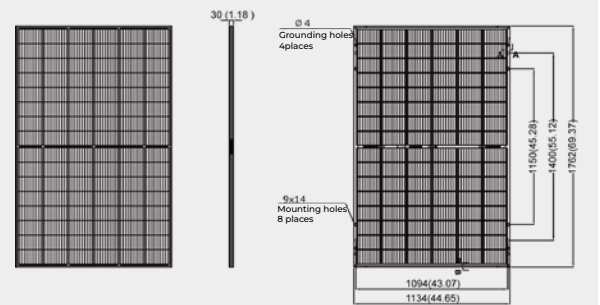
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature	45±2°C
Maximum Mechanical Load	5400Pa/2400Pa
Hail Protection	Withstands hailstones up to 25mm in diameter at speeds of up to 23m/s.

Packing Manner

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

Physical Characteristics

Unit:mm/inch







Units: mm (inch)
Tolerance:
Length: +2 mm
Width: +2 mm
Height: ±1 mm
Hole: ±1 mm

* The above drawing is a graphical representation of the product. For engineering quality drawings please contact LumenHaus GmbH.



**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	
	Maximum 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*93mm(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	



- 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			14kW
Model			LH-HHP-TE14K0ICE
Power Supply		V/Ph/H	380-415/3/50
Heating2	Capacity	kW	16.2
	Rated Input	kW	3.74
	COP		4.3
Heating3	Capacity	kW	15.8
	Rated Input	kW	3.86
	COP		4.1
Cooling4	Capacity	kW	14.8
	Rated Input	kW	3.43
	EER		4.3
Cooling5	Capacity	kW	14.2
	Rated Input	kW	3.63
	EER		3.9
Seasonal Space Heating Energy Efficiency Class7	LWT at 35°C		A+++
	LWT at 55°C		A+++
SCOP6	LWT at 35°C		4.94
	LWT at 55°C		3.83
Water Pump	Pump Head	m	9
	Max Flow	m³/h	4.5
	Adapter Diameter		DN25
Sound Pressure Level	Monobloc Unit	dB(A)	47
Sound Power Level	Monobloc Unit	dB	57
Packed Dimensions (WxDxH)	Monobloc Unit	mm	1355*545*1210
Body Dimensions (WxDxH)	Monobloc Unit	mm	1280*450*1040
Net Weight	Monobloc Unit	kg	154
Gross Weight	Monobloc Unit	kg	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	3
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

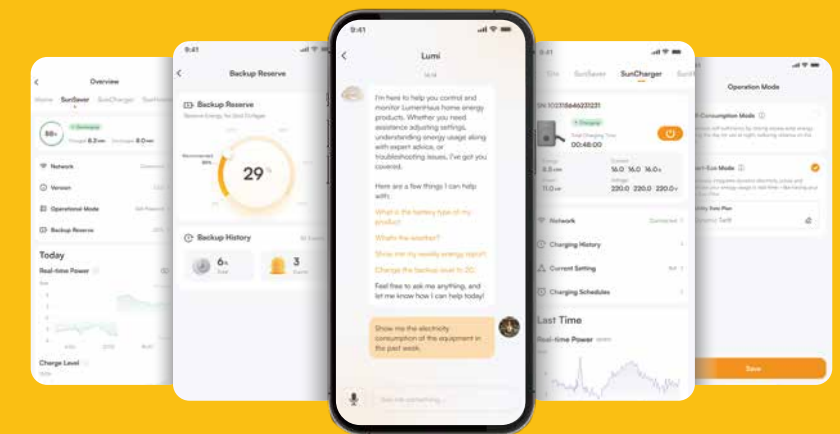
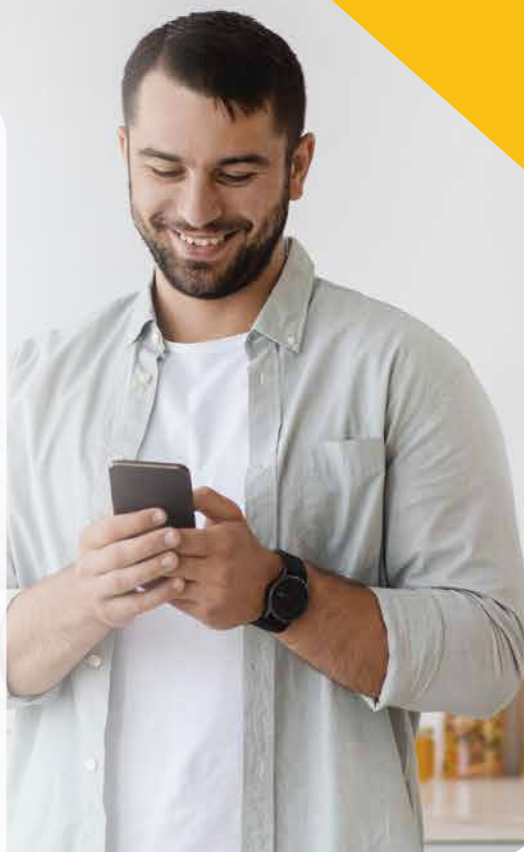
Lumi, your AI assistant, understands simple commands in multiple languages. Just ask, and Lumi will quickly help you manage your energy devices or switch smart home settings with ease.

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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