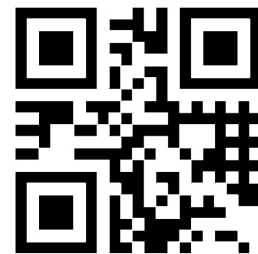


Dream Maker

Product brochure



www.dm-maker.de

Scan the QR code to explore our official website.

Heat Pumps | Power Storage Systems | Inverter Series
Photovoltaic Systems | All-In-One Solutions





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ESS-10kWh-S1

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80kW storage cabinet



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Efficient Energy Conversion Inverter series

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Hybrid inverters





Dream Maker

Dream Maker

About us

As an innovative eco-tech company, we develop future-proof system solutions and thus make an important contribution to the energy transition. With smart, green building technology, we ensure your independence and an exceptional comfort experience.

Dream Maker is a leading German supplier of convenient, renewable energy systems and heat pumps. The company has state-of-the-art fully automated factories with an experienced research and development team in Niedernhall, Germany. Dream Maker offers comprehensive solutions of comfortable home systems for high-end buildings. Products include air source heat pumps (for central air conditioning, heating and domestic hot water), household solar power storage systems and air handling systems. We focus on innovation, technological excellence, reliable quality and professional service. Our products are certified with EU-ERP, CE, KEYMARK, BAFA and American Energy Star, and exported to over 50 countries and regions.

Dream Maker Germany

Dream Maker's facility in Germany is located in the Hohenlohe area, with not only fresh air, energy-saving technologies and sufficient talent reserves, but also a complete industrial and supply chain .

Based on the geographical resource advantages, Dream Maker's facility in Germany has built an internationally advanced 4.0 industrial automation production line. The work on the assembly line is conducted by the ABB industrial robot arm, doubling the production capacity and providing a guarantee for high-quality standardized production.



Dream Maker China

Dream Maker's China manufacturing base is located at 5A Industrial Park, Yongkang High-Tech Zone, Zhejiang, which specializes in R&D, manufacturing and sales of heat pumps, energy storage systems and inverters. It has a modern production workshop with an advanced ATE test system, safety regulation test system, comprehensive EOL test system, aging test and production execution system, which truly integrates independent R&D, design, manufacturing and marketing.



Dream Maker

Heat Pumps

Dream Maker Heat Pumps

Advantages

For home owners

- Saving energy through the use of renewable energies.
- Comprehensive solutions for indoor climate control and hot water supply.
- User-friendly control system.
- Low noise level with high efficiency.
- Economic advantages through subsidy programs.

For installers

- Time saving due to fast installation and commissioning of the system.
- Excellent heating performance even at low ambient temperatures.
- Low repair costs and high reliability due to high quality products.
- Extensive product training by our team

Dream Maker

Dream Maker Ecosystem



1 Photovoltaic System

Photovoltaics in the hybrid system is a sensible addition, to minimize the use of fossil fuels furthermore.

2 Heat Pump

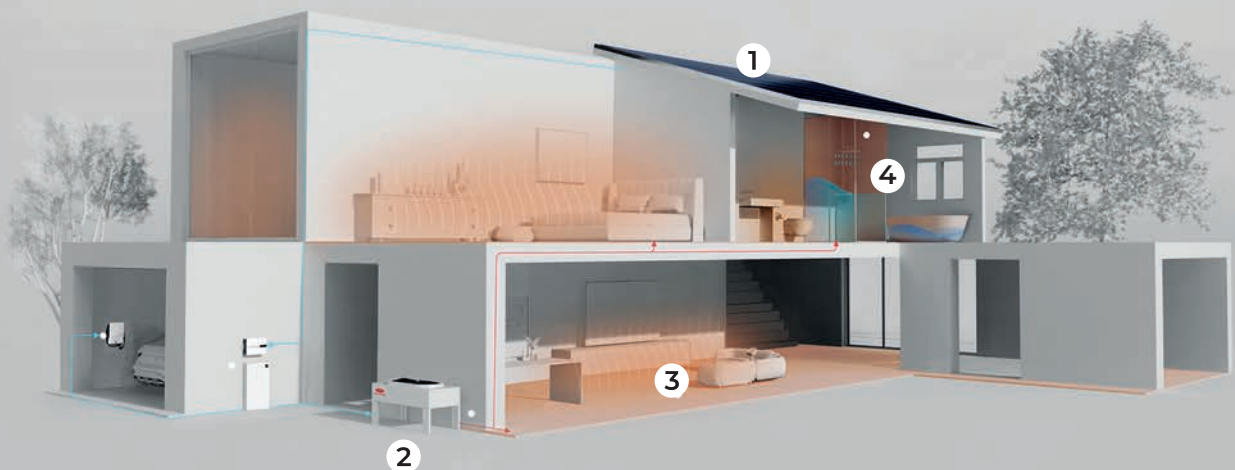
The heat pump uses the environment as an energy source and supplies your home with comfortable and sustainable heat or cold.

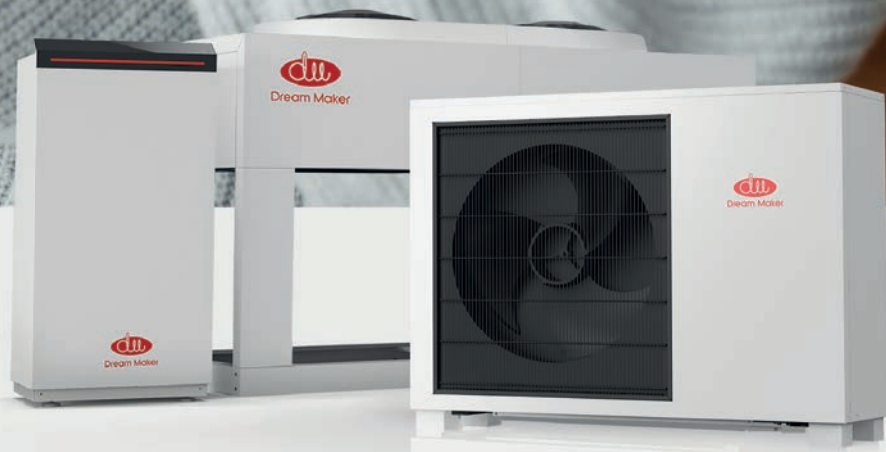
3 Underfloor Heating

Due to the large-area distribution, this combination requires a low supply temperature, which increases the efficiency of the heat pump.

4 Hot water

Hot water throughout the house - 24 hours a day / 365 days a year.





02

Overview DM Heat Pumps

DM Ecoline Monoblock 9kW / 12kW

HPWS35-ESS

Dream Maker

Air-Water-Heat pump

DM Ecoline Monoblock 9 / 12kW

4.9

Max. COP-Value

186.0%

Max. Efficiency



Bundesamt
für Wirtschaft und
Ausfuhrkontrolle

Eligible heat pump I BAFA-Listing

Easy Installation

Only a water and electricity connection is necessary for use.

Stylish Design

The clear and timeless design of the unit fits perfectly into any environment and also saves considerable space

Durable and robust

Due to the stable, powder-coated housing and the weather-resistant components, the DM Ecoline Monoblock 9kW / 12kW is designed for a long-lasting and reliable operation.



Heating
und
Cooling

heating, cooling and hot water
from one device.

A sustainable decision

Discover the promising heating solution for your home. The heat pump is the safest, most comfortable and most efficient way to convert renewable electricity into heating or cooling for buildings.

The Ecoline Monoblock is a compact heat pump designed with energy efficiency, comfort and user-friendly operation in mind.

The Mono unit is connected to only one water pipe, so there is no need to install pipes for the refrigerant.

Advanced Silent Mode

With a sound noise level of only 28dB(A) at a distance of 3 meters (Advanced Silent Mode), the DM Ecoline Monoblock is one of the quietest heat pumps of its type. The low frequency ranges in particular are specifically so that neither annoy your neighbors nor endanger your own sleep.

50dB(A) Normal talks

40dB(A) Light rain shower

28dB(A) DM Ecoline Monoblock in Advanced Silent Mode

20dB(A) Whispering

10dB(A) Rustling leaves

0dB(A) Falling feather

28dB(A)

Inside: 43dB(A) | Outdoor: 52dB(A) according to ErP

Energy Efficiency class*

A+++ / 35°C

A++ / 55°C

Energy efficiency class EU-Regulation Nr. 811/2013
Heating average climatization
Low (35°C) / medium temperature application (55°C)

-25°C to 43°C

Operating temperature range

60°C

Max. flow temperature

Refrigerant: R32

R32 vs R410A

75%

Less impact on global warming with R32



Dream Maker

Monoblock Heat Pumps

Technical sheet DM Ecoline

Ecological.
Economical.
Safe.



Technical Data

Operating range

-25°C to 43°C

Max. flow temperature

60°C

Min. system water temperature

Heating: 20°C / Cooling: 7°C

Operating pressure

High pressure side: 4.2MPa

Low pressure side: 1.2MPa

Ecoline Monoblock 9kW

Refrigerant

R32 / 1400g

Performance COP / heat dissipation

A7/W35: COP 4.88 / 9.2kW

A2/W35: COP 4.17 / 7.9kW

A-7/W35: COP 3.16 / 5.7kW

A35/W18: EER 4.31 / 9.5kW

A35/W7: EER 2.8 / 7.2kW

Noise level

IN/OUT: 44dB(A) / 53dB(A)

Ecoline Monoblock 12kW

Refrigerant

R32 / 1800g

Performance COP

A7/W35: COP 4.9 / 11.6kW

A2/W35: COP 4.1 / 10.2kW

A-7/W35: COP 3,25 / 7.8kW

A35/W18: EER 3.9 / 9.8kW

A35/W7: EER 2,7 / 8.5kW

Noise level

IN/OUT: 44dB(A) / 52dB(A)

Model / DM Ecoline			Monoblock 9KW	Monoblock 12KW
Compressor	System type		1x Double rotation	1x Double rotation
Fan	Air flow	m ² /h	3150	3150
	Nominal power	W	45	45
acoustic pressure	Inside / Outside	dB(A)	44 / 53	44 / 53
Heat exchanger	System type		Plate-HE	Plate-HE
	Pressure drop	kPa	26	26
	Pipe connection		G1"	G1"
Nominal volume flow	Min. / Bew. / Max.	l/s	0.26 / 0.43 / 0.52	0.26 / 0.43 / 0.52

General Data

Size and weight

L x W x D / Indoor unit:

570mm x 550mm x 255mm

L x W x D / Outdoor unit:

1165mm x 370mm x 845mm

Indoor unit: 25kg

Outdoor unit: 78kg / 85kg

Power

240V / 50Hz / 3Ph

Dream Maker 2023
No liability for printing errors - subject to change

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Split Heat Pump
DM HPWS35-ESS

4.0

Max. COP-Value

35kW

Heating capacity | 32kW Cooling capacity

Space saving installation

No large wall openings and a space saving indoor unit

Stylish Design

The clear and timeless design of the unit fits perfectly into any environment and also saves considerable space

High operating comfort

Remote control with smart app and high-resolution LCD screen



The Split Heat Pump

A split heat pump consists of an indoor and an outdoor unit, whereby the noise-generating components evaporator, fan and compressor are installed in the outdoor unit.

Reversible operation - heating and cooling possible. This you can keep your home at a pleasant temperature during the summer months.

The advantage of the HPW35-ESS is barely audible operation.

Heating & Cooling

Advanced Silent Mode

50dB(A) Normal talks

40dB(A) Light rain shower

28dB(A) DM HPWS35-ESS in Advanced Silent Mode

20dB(A) Whispering

10dB(A) Rustling leaves

0dB(A) Falling Feather

28dB(A)

Inside: 43dB(A) | Outdoor: 52dB(A)

Energyefficiency class*

A+++ / 35°C

A++ / 55°C

*Energy efficiency class according to EU regulation No. 811/2013 Heating, average climate conditions: Low (35°C) / medium temperature application (55°C).

-27°C to 45°C

Operation temperature range

60°C

Max. flow temperature

Refrigerant: R32

R32 vs R410A

75%

Less impact on global warming with R32



Remote control with smart app and high resolution LCD screen



Dream Maker

Due for a new heater?

Upgrade to a heat pump now.

Those who heat with renewable energies are rewarded by the state. There are attractive subsidies for both new construction and for replacing your old heating system with a heat pump.

In addition to the federal government's subsidy programs at BAFA and KfW, many states, municipalities or energy suppliers also offer subsidies for efficient heat pumps. Find out now and benefit from subsidies up to 40%. All our heat pumps are BAFA listed and therefore fully eligible for subsidies



Bundesamt
für Wirtschaft und
Ausfuhrkontrolle

Becoming independent together.

Dream Maker

Power Storage System

ESS-10kWh-S1

Short Facts

Stable operation

High quality and high performance lithium iron phosphate accumulator for economical and long-lasting operation.

Stylish design

Timeless & minimalist design. LED Screen with light ring indicator.

Smart Management

Intelligent loading and unloading.

Real-Time Monitoring

Real-time monitoring and control via app and web Application.

Flexible Installation

Wall-mounted or floor-mounted.

Easily extensible

Parallel connection of up to 10 devices possible.



Dream Maker

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Dream Maker

Dream Maker Ecosystem



1 PV-Modules

PV systems convert the sun's rays into usable energy and fill your energy storage system with clean energy.

2 Heat Pump

With the high output power of the energy storage unit, the heat pump can be operated without any problems.

3 Energy storages

The energy storage system secures surplus energy from your PV modules to use day and night. In this way you always supply your house and your vehicle with electricity, even during a power outage.

24/7 Emergency power and **100%** independence

Smart Home Energy for your home

Become independent now! Store the free energy of the energy from the sun and use it when the sun is not shining. The lithium-ion battery from Dream Maker installed in the ESS-10kWh-S1. Ion battery from Dream Maker supplies your home with safe and economical electricity. The system can be installed quickly and easily, and is completely automatic without any maintenance costs.

Ideally, this system can make your home 100% independent for many days and reduce the CO2 footprint of your household significantly.

Increase your self-sufficiency level

In the future, decentralized electricity storage systems will play an important role for the energy transition. Electricity storage reduces the power consumption from the public grid even more than the PV system alone. In this way, solar power can also be used by the customer, which can be fed into the public power grid without the need for an electricity storage system.

The independence from the electricity supplier can thus - in a typical single-family house with a PV system - from 25% to up to 70% significantly.

24/7 Energy Monitoring

Manage and control DM energy storage system in real time. Analyze and optimize your power consumption conveniently via smartphone from the sofa or remotely.

Plan ahead for each season and monitor your energy consumption daily, weekly, and monthly in order to increase your energy self-sufficiency.

Everything in view at all times

Power consumption, PV power generation, battery state of charge of the battery, power feed-in, degree of self-sufficiency.



Real-time data collection through module-level monitoring. Manage your functions and track and evaluate energy consumption with instant notifications and clear navigation.

Uncomplicated commissioning / maintenance via app and Integrated automated performance data backup.

Application available for iOS and Android

Backup Safety

The 24/7 emergency power insurance. The ESS-10kWh-S1 is an power storage unit that immediately detects a power grid collapse and automatically becomes the source of energy for your household. Unlike conventional generators, the DM power storage unit will continue to supply your home during power outages and does not leave you in the dark.

IP65 Protection class

Lo
m
lpsu
m
dolor



Multiple protection through BMS

Storage systems for PV plants are highly complex electronic systems. Our self-developed BMS (Battery Management System) ensures that the battery storage system is running at the most effective operating moments at all times and ensures the economic operation of the PV system. The most important tasks of the BMS include monitoring and control of the state of charge, temperature monitoring, temperature management of the batteries, control of the charging and protection of the batteries against overloads.

Adaptable.

The DM electricity storage system is adapted to the size of your PV system and can be newly installed as well as retrofitted to any existing photovoltaic system.

Easy to install and scalable with up to 9 additional units, increasing the storage capacity.



Specs ESS-10kWh-S1

Storage capacity

10kWh

Discharge depth / DoD

92%

Nominal voltage

204.8V

Nominal capacity: 50Ah

Voltage range: 179.2V - 230.4V

Charging & discharging current

Standard: 25A

Maximum: 30A

Battery type

LFP / 1P64S

Installation

Wall and floor mounting

Up to 10 power storage units

Operating range:

Loading: 0~50°C/Unloading: -20~50°C

Certificates

VDE2510-50 / IEC62619 / IEC62477 /

IEC62040 / CE / UN38.3

Size and weight

L x W x D

1200mm x 646mm x 180mm

142kg

10 years warranty

Short Facts

Ultra-slim design

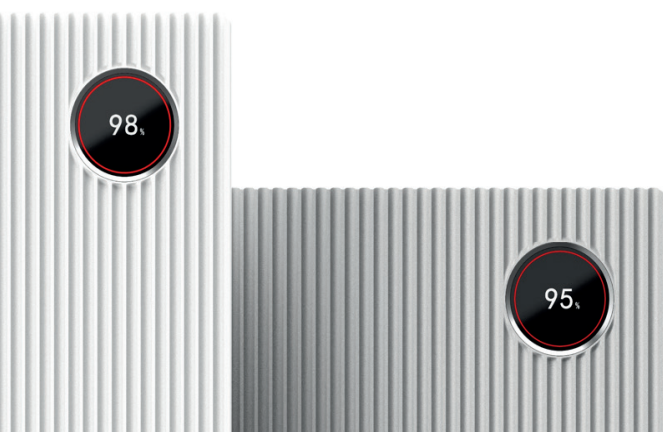
Reduces installation space and enjoy high-end technology aesthetics.

High adaptability

Schutzart IP65 - geeignet im Innen- und Außenbereich, sowohl für die Bodenaufstellung, als auch für die Wandmontage.

Safe and reliable

One-piece die-cast aluminum body, lithium iron phosphate battery cell, battery module's outer frame made of high heat dissipation aluminum alloy, BMS all-round monitoring, safe and durable.



Dream Maker

80kW Storage Cabinet



Short Facts

More capacity

95% depth of discharge, balanced optimization of charging and discharging between modules, Discharge more available energy.

High adaptability

IP55 protection, working temperature $-40^{\circ}\text{C}\sim 55^{\circ}\text{C}$, low requirement of usage environment.

Smart Control

Intelligent BMS monitoring in all areas, real-time control of working status.

Active Safety

PACK level active fire protection system, safe and reliable.

Adaptable.

The DM 80kW storage cabinet is adapted to the size of your PV system and can be newly installed as well as retrofitted to any existing photovoltaic system.

Easy to install and scalable with up to 15 additional units, increasing the storage capacity.



Specs

Storage capacity

80kWh

Discharge depth / DoD

80%

Nominal voltage

409.6V

Nominal capacity: 200Ah

Voltage range: 358.4V - 467.2V

Charging & discharging current

Standard: 100Ah

Maximum: 200Ah

Protection class: IP55

Durable.

Cycle times

more than 6000 cycles

0,5/0,5C 25°C



Dream Maker

Inverter series

PCS-1-8KW-30A-1

PCS-3-8KW-25A-1 | PCS-3-10KW-25A-1

PCS-3-10KW-40A-1 | PCS-3-12KW-40A-1 | PCS-3-15KW-40A-1 | PCS-3-20KW-40A-1

Inverter Series - Hybrid Inverters

Short Facts

Stable operation

High-quality and powerful hybrid inverters with 10 years product warranty.

Stylish design

Timeless & minimalist design. OLED display.

Smart Management

Integrated energy management system for highest Efficiency.

WIFI

Real-time monitoring and control via app/web Application.

Flexible Installation

Horizontal design and snap-in terminal configuration for easy installation and maintenance.

Dream Maker

Inverter series
Hybrid-Inverters

98.4%

Max. PV-Efficiency

< 10ms

UPS uninterruptible power supply

< 110%

Three-phase voltage imbalance support



Leading technology | Reliable operation | Excellent performance | User-friendly

For private households
and commercial clients

Single phase &
Three-phase

High Voltage

2MPPTs

The Dream Maker inverter series is based on the highest quality standards, is fully certified and, in addition to the statutory we give a 10-year warranty on our inverters. The flexible installation, the compact dimensions and the timeless design allow universal use, both in private and commercial applications.

Operation Temperature: -30°C - 60°C

Integrated protection functions

Reverse polarity protection for PV input
Reverse polarity protection for battery input
Insulation impedance protection
Overvoltage and overheating protection
Leakage current protection
Operation Temperature: -30°C - 60°C
AC overvoltage protection
Anti-islanding protection
Overload Protection
Short Circuit Protection

Allgemeine Daten

Overvoltage category

PV: II; Main: III

Protection class

IP65

Noise level

<25dB

Communication

CAN, RS485, WIFI/LAN (optional)



Technical Data

Model	PCS-1 8kW-30A -1	PCS-3 8KW-25A -1	PCS-3 10KW-25A -1	PCS-3 10KW-40A -1	PCS-3 12KW-40A -1	PCS-3 15KW-40A -1	PCS-3 20KW-40A -1
General Data							
Usage area	Private households			Commercial Clients			
Phases	1	3	3	3	3	3	3
Rec. input power	12.8kW	12kW	15kW	15kW	18kW	22.5kW	30kW
Max. PV efficiency	97.6%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
EU efficiency	97.0%	97.4%	97.4%	97.5%	97.5%	97.5%	97.5%
External operating temperature	-30°C to 60°C						
Noise level	<25dB	<25dB	<25dB	<40dB	<40dB	<40dB	<40dB
Dimensions / Weight	534mm × 418mm × 210mm / 27.0kg						
PV input data							
Starting voltage	80V	135V	135V	135V	135V	135V	135V
Max. DC input voltage*	600V	1000V	1000V	1000V	1000V	1000V	1000V
DC input voltage	360V	620V	620V	620V	620V	620V	620V
Number of MPPT trackers	2	2	2	2	2	2	2
Max. Input current	15A / 15A	15A / 15A	15A / 15A	30A / 30A	30A / 30A	30A / 30A	30A / 30A
AC current data (grid side)							
Nominal output power	8kW	8kW	10kW	10kW	12kW	15kW	20kW
Max. Battery charging power	8kW	8kW	10kW	10kW	12kW	15kW	20kW
Nominal voltage	3L/N/PE; 220/380V; 230/400V; 240/415V						
Grid frequency	50 / 60Hz						
Max. Output current	36.3A	13.3A	16.5A	16.5A	20A	25A	33.5A
AC current data (grid-independent)							
Nominal output power	8kW	8kW	10kW	10kW	12kW	15kW	20kW
Max. Output power	8kVA	8.8kVA	11.0kVA	11.0kVA	13.2kVA	16.5kVA	22kVA
Max. Output current	36.6A	16.5A	20A	16.5A	20A	25A	33.5A
USV cycle time	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Battery data							
Battery type	Lithium-ion battery (with BMS)						
Voltage range	65-450V	135-750V	135-750V	135-750V	135-750V	135-750V	135-750V
Max. Current: Charge / Discharge	30A / 30A	25A / 25A	25A / 25A	40A / 40A	40A / 40A	40A / 40A	40A / 40A

*Max. DC input voltage 1000V, max. DC operating voltage 950V

Dream Maker

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The purpose of this document is to present information and products of the Dream Maker brand. Since the technological research process requires constant control and improvement, the information contained in this publication is subject to change. Up-to-date information is always available at www.dm-maker.de or from your personal contact.

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Dream Maker



Becoming independent together

Discover the sustainable and promising system solutions from Dream Maker
and create your very own personal energy transition
with the highest level of comfort.

Sven Ottke
former world boxing champion and Dream Maker brand ambassador

