



**MMD**

*Carport*



## VARIANT I

- ▶ MATERIAL CONSTRUCTION CONSTANT NAMED: strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ Panel layout: vertical
- ▶ TILT ANGLE: 10 °
- ▶ Spacing of the supports: 3 m
- ▶ Mounting: to the foundation
- ▶ Construction warranty: 15 years
- ▶ Coating warranty: 7 years
- ▶ Holes for mounting the gutter
- ▶ Side covers
- ▶ Tight construction for assembly of modules, galvanized
- ▶ Photovoltaic installation 5.40 kwp:
- ▶ Ja solar 540w bifacial modules - 10 pcs
- ▶ Solplane inverter

**NET PRICE: EUR 6 830,00**

**MD** *Carport*

CAPRPORT: **MDCPW1**



## VARIANT II

- ▶ Material: steel construction with increased strength
- ▶ Anticorrosion coating: galvanized
- ▶ Panel layout: vertical
- ▶ Tilt angle: 10 °
- ▶ Spacing of the supports: 3 m
- ▶ Mounting method: to the foundation (we design them)
- ▶ Construction warranty: 15 years
- ▶ Coating warranty: 7 years
- ▶ Holes for mounting the gutter
- ▶ Side covers
- ▶ Tight construction for assembly of modules, galvanized
- ▶ Photovoltaic installation 6.12 kwp:
- ▶ Huasan himalaya m6 bifacial 510 modules - 12 pcs
- ▶ Sofar / growat / Fronius / Foxess inverter

**NET PRICE: EUR 8 730,00**

TRANSPORT -  
NET ASSEMBLY –  
ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ELEMENTS, NET PRICES:

- ▶ POWDER PAINTING – EUR 310,00
- ▶ PREFABRICATED FOUNDATION – EUR 720,00
- ▶ TIGHT CONSTRUCTION FOR MOUNTING MODULES BLACK COLOR SURCHARGE – EUR 130,00

ENERGY STORAGE with iEMS intelligent energy management system:

- ▶ PFH 5kw, CAPACITY 10.24kWh – EUR 12 620,00
- ▶ PFH 5kw, CAPACITY 20.48kWh – EUR 17 760,00
- ▶ PFH 5kw, CAPACITY 30.96kWh – EUR 22 910,00
- ▶ FOR INSTALLATION WITH STORAGE IN WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY OPTION I EUR 550,00, OPTION II EUR 850,00

CAR CHARGERS ACCORDING TO INDIVIDUAL VALUATION

- ▶ DEVICE WARRANTY 25 YEARS
- ▶ 10-YEAR INSTALLATION WARRANTY

POSSIBILITY OF EXPANDING ANOTHER JOBS - MODULAR SYSTEM  
CONSTRUCTION ADAPTATION TO INDIVIDUAL REQUIREMENTS OF THE  
CUSTOMER  
ON INDIVIDUAL INQUIRIES POSSIBILITY OF CHANGING PHOTOVOLTAIC  
DEVICES  
DEVICE CONFIGURATION CAN BE CHANGED DEPENDING ON  
ACCESSIBILITY

## VARIANT I

- ▶ Material: steel construction with increased strength
- ▶ Anticorrosion coating: galvanized
- ▶ Panel layout: vertical
- ▶ Tilt angle: 10 °
- ▶ Spacing of the supports: 5.8 m
- ▶ Mounting method: to the foundation (we design them)
- ▶ Construction warranty: 15 years
- ▶ Coating warranty: 7 years
- ▶ Holes for mounting the gutter
- ▶ Side covers
- ▶ Tight construction for assembly of modules, galvanized
- ▶ 9.72 kwp photovoltaic installation:
  - ▶ Ja solar 540w bifacial modules - 18 pcs
  - ▶ Solplanet inverter

**NET PRICE: EUR 11 890,00**



## VARIANT II

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ PANEL LAYOUT: vertical
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF THE SUPPORTS: 5.8 m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 10.20 kWp:
- ▶ HUASAN HIMALAYA M6 BIFACIAL 510 MODULES - 20 PCS
- ▶ SOFAR / GROWAT / FRONIUS / FOXESS INVERTER

**NET PRICE: EUR 14 900,00**

TRANSPORT -  
NET ASSEMBLY -  
ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ELEMENTS, NET PRICES:

- ▶ POWDER PAINTING – EUR 720,00
- ▶ PREFABRICATED FOUNDATION – EUR 1 650,00
- ▶ TIGHT CONSTRUCTION FOR MOUNTING MODULES BLACK COLOR  
ADDITIONAL CHARGE – EUR 210,00

ENERGY STAY ON WAREHOUSE with iEMS intelligent energy management system:

- ▶ PFH 10kw, CAPACITY 10.24kWh – EUR 13 780,00
- ▶ PFH 10kw, CAPACITY 20.48kWh – EUR 18 920,00
- ▶ PFH 10kw, CAPACITY 30.96kWh – EUR 24 070,00

FOR INSTALLATION WITH STAY ON WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY: OPTION I EUR 640,00, OPTION II EUR 1 280,00

- ▶ CAR CHARGERS ACCORDING TO INDIVIDUAL VALUATION
- ▶ DEVICE WARRANTY 25 YEARS
- ▶ 10-YEAR INSTALLATION WARRANTY
- ▶ POSSIBILITY OF EXPANDING ANOTHER JOBS - MODULAR SYSTEM
- ▶ CONSTRUCTION ADAPTATION TO INDIVIDUAL REQUIREMENTS OF THE CUSTOMER
- ▶ ON INDIVIDUAL INQUIRIES POSSIBILITY OF CHANGING PHOTOVOLTAIC DEVICES

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- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 5.40 kWp:
- ▶ JA SOLAR 540W BIFACIAL MODULES - 10 PCS
- ▶ SOLPLANET INVERTER

**NET PRICE: EUR 6 580,00**



## VARIANT II

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ PANEL LAYOUT: vertical
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF THE SUPPORTS: 3 m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 6.12 kWp:
- ▶ HUASAN HIMALAYA M6 BIFACIAL 510 MODULES - 12 PCS
- ▶ SOFAR / GROWAT / FRONIUS / FOXESS INVERTER

**NET PRICE: EUR 8 490,00**

TRANSPORT -  
NET ASSEMBLY -  
ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ELEMENTS, NET PRICES:

- ▶ POWDER PAINTING - PLN 1,320.00
- ▶ PREFABRICATED FOUNDATION - PLN 5,940.00
- ▶ TIGHT CONSTRUCTION FOR MOUNTING MODULES BLACK COLOR SURCHARGE - 600.00 PLN

ENERGY STAY ON WAREHOUSE with iEMS intelligent energy management system:

- ▶ PFH 5kw, CAPACITY 10.24kWh – EUR 12 620,00
- ▶ PFH 5kw, CAPACITY 20.48kWh – EUR 17 760,00
- ▶ PFH 5kw, CAPACITY 30.96kWh – EUR 22 910,00
- ▶ FOR INSTALLATION WITH STAY ON WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY OPTION I EUR 550,00, OPTION II EUR 850,00

CAR CHARGERS ACCORDING TO INDIVIDUAL VALUATION

- ▶ DEVICE WARRANTY 25 YEARS
- ▶ 10-YEAR INSTALLATION WARRANTY

POSSIBILITY OF EXPANDING ANOTHER JOBS - MODULAR SYSTEM  
CONSTRUCTION ADAPTATION TO INDIVIDUAL REQUIREMENTS OF  
THE CUSTOMER  
ON INDIVIDUAL INQUIRIES POSSIBILITY OF CHANGING  
PHOTOVOLTAIC DEVICES

## VARIANT I

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ PANEL LAYOUT: vertical
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF THE SUPPORTS: 5.8 m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ 9.72 kWp photovoltaic installation:
- ▶ JA SOLAR 540W BIFACIAL MODULES - 18 PCS
- ▶ SOLPLANET INVERTER

**NET PRICE: EUR 12 160,00**



## VARIANT II

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ PANEL LAYOUT: vertical
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF THE SUPPORTS: 5.8 m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 10.20 kWp:
- ▶ HUASAN HIMALAYA M6 BIFACIAL 510 MODULES - 20 PCS
- ▶ SOFAR / GROWAT / FRONIUS / FOXESS INVERTER

**NET PRICE: EUR 15 170,00**

NET ASSEMBLY -  
TRANSPORT -  
ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ELEMENTS, NET PRICES:

- ▶ POWDER PAINTING – EUR 720,00
- ▶ PREFABRICATED FOUNDATION – EUR 1 650,00
- ▶ TIGHT CONSTRUCTION FOR MOUNTING MODULES BLACK COLOR  
ADDITIONAL CHARGE – EUR 210,00

ENERGY STAY ON WAREHOUSE with iEMS intelligent energy management system:

- ▶ PFH 10kw, CAPACITY 10.24kWh – EUR 13 780,00
- ▶ PFH 10kw, CAPACITY 20.48kWh – EUR 18 920,00
- ▶ PFH 10kw, CAPACITY 30.96kWh – EUR 24 070,00

FOR INSTALLATION WITH STAY ON WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY: OPTION I EUR 640,00, OPTION II EUR 1 280,00

CAR CHARGERS ACCORDING TO INDIVIDUAL VALUATION

- ▶ DEVICE WARRANTY 25 YEARS
- ▶ 10-YEAR INSTALLATION WARRANTY
- ▶ POSSIBILITY OF EXPANDING ANOTHER JOBS - MODULAR SYSTEM
- ▶ CONSTRUCTION ADAPTATION TO INDIVIDUAL REQUIREMENTS OF THE CUSTOMER
- ▶ ON INDIVIDUAL INQUIRIES POSSIBILITY OF CHANGING PHOTOVOLTAIC DEVICES

## VARIANT I

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF SUPPORTS: 3m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ COATING WARRANTY: 7 years
- ▶ SIDE COVERS
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 5.40 kWp:
- ▶ JA SOLAR 540W BIFACIAL MODULES - 10 PCS
- ▶ SOLPLANET INVERTER

**NET PRICE: EUR 6 280,00**



## VARIANT II

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF SUPPORTS: 3m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 6.12 kWp:
- ▶ HUASAN HIMALAYA M6 BIFACIAL 510 MODULES - 12 PCS
- ▶ SOFAR / GROWAT / FRONIUS / FOXESS INVERTER

**NET PRICE: EUR 8 180,00**

NET TRANSPORT -  
NET ASSEMBLY -  
ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ELEMENTS, NET PRICES:

- ▶ PREFABRICATED FOUNDATION – EUR 620,00

ENERGY STAY ON WAREHOUSE with iEMS intelligent energy management system:

- ▶ PFH 5kw, CAPACITY 10.24kWh – EUR 12 620,00
- ▶ PFH 5kw, CAPACITY 20.48kWh – EUR 17 760,00
- ▶ PFH 5kw, CAPACITY 30.96kWh – EUR 22 910,00
- ▶ FOR INSTALLATION WITH STAY ON WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY OPTION I EUR 550,00, OPTION II EUR 850,00

CAR CHARGERS ACCORDING TO INDIVIDUAL VALUATION

- ▶ DEVICE WARRANTY 25 YEARS
- ▶ 10-YEAR INSTALLATION WARRANTY

POSSIBILITY OF EXPANDING ANOTHER JOBS - MODULAR SYSTEM  
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## VARIANT I

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF SUPPORTS: 5.8 m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ 9.72 kWp photovoltaic installation:
- ▶ JA SOLAR 540W BIFACIAL MODULES - 18 PCS
- ▶ SOLPLANET INVERTER

**NET PRICE: EUR 10 610,00**



## VARIANT II

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF SUPPORTS: 5.8 m
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ SIDE COVERS
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 10.20 kWp:
- ▶ HUASAN HIMALAYA M6 BIFACIAL 510 MODULES - 20 PCS
- ▶ SOFAR / GROWAT / FRONIUS / FOXESS INVERTER

**NET PRICE: EUR 13 620,00**

NET TRANSPORT -  
NET ASSEMBLY –  
ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ELEMENTS, NET PRICES:

- ▶ PREFABRICATED FOUNDATION – EUR 920,00

ENERGY STAY ON WAREHOUSE with iEMS intelligent energy management system:

- ▶ PFH 10kw, CAPACITY 10.24kWh – EUR 13 780,00
- ▶ PFH 10kw, CAPACITY 20.48kWh – EUR 18 920,00
- ▶ PFH 10kw, CAPACITY 30.96kWh – EUR 24 070,00

FOR INSTALLATION WITH STAY ON WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY: OPTION I EUR 640,00, OPTION II EUR 1 280,00

CAR CHARGERS ACCORDING TO INDIVIDUAL VALUATION

- ▶ DEVICE WARRANTY 25 YEARS
- ▶ 10-YEAR INSTALLATION WARRANTY

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PHOTOVOLTAIC DEVICES

## VARIANT I

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized + RAL color
- ▶ PANEL LAYOUT: vertical
- ▶ SYSTEM: airtight roof
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF SUPPORTS: 3-4 M
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 5.40 kWp:
- ▶ JA SOLAR 540W BIFACIAL MODULES - 10 PCS
- ▶ SOLPLANET INVERTER

**NET PRICE: EUR 13 640,00**

**MD** Carport

CAPRPORT: **MDCPED1**



## VARIANT II

- ▶ MATERIAL: steel construction with increased strength
- ▶ ANTICORROSION COATING: galvanized + RAL color
- ▶ PANEL LAYOUT: vertical
- ▶ SYSTEM: airtight roof
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF SUPPORTS: 3-4 M
- ▶ MOUNTING METHOD: to the foundation (we design them)
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ PHOTOVOLTAIC INSTALLATION 6.12 kWp:
- ▶ HUASAN HIMALAYA M6 BIFACIAL 510 MODULES - 12 PCS
- ▶ SOFAR / GROWAT / FRONIUS / FOXESS INVERTER

**NET PRICE: EUR 15 550,00**

TRANSPORT -  
NET ASSEMBLY –  
ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ELEMENTS, NET PRICES:

- ▶ POWDER PAINTING - INCLUDED
- ▶ PREFABRICATED FOUNDATION – EUR 980,00
- ▶ TIGHT CONSTRUCTION FOR MOUNTING MODULES BLACK COLOR SURCHARGE – EUR 140,00

ENERGY STAY ON WAREHOUSE with iEMS intelligent energy management system:

- ▶ PFH 5kw, CAPACITY 10.24kWh – EUR 12 620,00
- ▶ PFH 5kw, CAPACITY 20.48kWh – EUR 17 760,00
- ▶ PFH 5kw, CAPACITY 30.96kWh – EUR 22 910,00
- ▶ FOR INSTALLATION WITH STAY ON WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY OPTION I EUR 550,00, OPTION II EUR 850,00

CAR CHARGERS ACCORDING TO INDIVIDUAL VALUATION

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- ▶ 10-YEAR INSTALLATION WARRANTY

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## VARIANT I

- ▶ MATERIAL construction constant named: strength
- ▶ ANTICORROSION COATING: galvanized + RAL color
- ▶ PANEL LAYOUT:
- ▶ SYSTEM: airtight roof
- ▶ TILT ANGLE: 10 °
- ▶ SPACING OF SUPPORTS: 5-6 M
- ▶ MOUNTING: to the foundation
- ▶ CONSTRUCTION WARRANTY: 15 years
- ▶ COATING WARRANTY: 7 years
- ▶ HOLES FOR MOUNTING THE GUTTER
- ▶ TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- ▶ 9.72 kWp photovoltaic installation:
- ▶ JA SOLAR 540W BIFACIAL MODULES - 18 PCS
- ▶ SOLPLANE INVERTER

**Net price: EUR 23 020,00**



## VARIANT II

- MATERIAL construction constant named: strength
- ANTICORROSION COATING: galvanized + RAL color
- PANEL LAYOUT:
- SYSTEM: airtight roof
- TILT ANGLE: 10 °
- SPACING OF SUPPORTS: 5-6 M
- MOUNTING: to the foundation
- CONSTRUCTION WARRANTY: 15 years
- COATING WARRANTY: 7 years
- HOLES FOR MOUNTING THE GUTTER
- TIGHT CONSTRUCTION FOR ASSEMBLY OF MODULES, GALVANIZED
- PHOTOVOLTAIC INSTALLATION 10.20 kWp:
- HUASAN HIMALAYA M6 BIFACIAL 510 MODULES - 20 PCS
- SOFA / GROWAT / FRONIUS / FOXESS INVERTER

**Net price : EUR 26 020,00**

TRANSPORT -  
NET ASSEMBLY –

ACCORDING TO INDIVIDUAL ARRANGEMENTS

ADDITIONAL ITEMS, See NET:

- ▶ POWDER PAINTING - PLN 3,080.00
- ▶ PREFABRICATED FOUNDATION - PLN 7,040.00
- ▶ TIGHT CONSTRUCTION FOR MOUNTING MODULES BLACK - 900.00 PLN

MAGAZ ENERGI STAY with the intelligent iEMS management system:

- ▶ PFH 10kw, CAPACITY 10.24kWh – EUR 13 780,00
- ▶ PFH 10kw, CAPACITY 20.48kWh – EUR 18 920,00
- ▶ PFH 10kw, CAPACITY 30.96kWh – EUR 24 070,00

FOR INSTALLATION WITH STAY ON WAREHOUSE THE PRICE OF THE BASIC INSTALLATION WILL BE REDUCED BY: OPTION I EUR 640,00, OPTION II EUR 1 280,00

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- ▶ SIDE COVERS
- ▶ TIGHT MODULE ASSEMBLY SYSTEM
- ▶ BASIC PREFABRICATED
- ▶ POWDER PAINTING
- ▶ STAY-ON WAREHOUSES
- ▶ CHARGERS
- ▶ POSSIBILITY OF EXPANDING ANOTHER JOBS - MODULAR SYSTEM
- ▶ CONSTRUCTION ADAPTATION TO INDIVIDUAL REQUIREMENTS OF THE CUSTOMER



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CAPRPORT: **MDCPPY**



# PFH STAY-ON series flexum storage offer

The offered product is significantly different from generally available energy storage. I highly recommend doing a benchmarking that shows important differences in the value chain delivered with the PFH line including:

- ▶ a fully integrated hardware set including an inverter, batteries, BMS, security
- ▶ proprietary intelligent energy management system iEMS

The PFH line is a fully integrated energy storage system offering a complete value chain:



## The basic parameters of the system are:

- ▶ system ready for installation - "turnkey" execution
- ▶ Power from 5 kW to 12 kW in a three-phase system
- ▶ Energy storage capacity from 10 kWh to 30 kWh
- ▶ Input to PV installation (2 MPPT inputs)
- ▶ Input for an additional AC source (generator, wind turbine)
- ▶ On-grid cooperation and off-grid operation
- ▶ Uninterruptible power supply

## What distinguishes the PFH family is ensuring the customer's sense of energy security achieved, among others, by means of:

- ▶ Uninterruptible power supply function - the PFH system will ensure continuity of power supply during power outages by the operator
- ▶ Maximum use of energy produced from the sun (or also wind)
- ▶ Ensuring full self-consumption, and thus reducing electricity bills to the absolute minimum possible
- ▶ Storage operation only when it is really needed - loads from overproduction
- ▶ Possibility of complete disconnection from the network by connecting additional backup sources

Intelligent iEMS energy management system as standard integrated with every STAY-ON product of the PFH family. Is characterised by:

The goal: even greater minimization of electricity costs

Basic functionality:

- Prediction
  - Weather forecast - generation profile
  - Machine learning - load profile
  - Parameterization
  - Energy cost depending on time and direction
- Optimization

Planning for future conditions of a charging strategy that maximizes the financial result

## BATTERY (UNIT MODULE)

Cell type	LFP
Rated voltage (V)	51.2 V
Voltage range (V)	47.5 V - 58 V
Nominal capacity of the module (Ah)	100 Ah
Nominal module charging current (A)	50
Module Nominal Discharge Current (A)	50
Nominal module energy (kWh)	5.12 kWh
Max. number of modules	6, parallel connection
Cycle efficiency	≥95%
Cyclic life	≥6000 cycles for 0,5C/0,5C, 90%DOD, 25°C
Calendar life	≥10 years
External BMS communication	CAN
Internal BMS communication	RS-485
Stand-by power consumption	2W
Level of security	IP 20
Module weight (kg)	51
Module dimensions (mm)	440S × 117W × 620G
Working temperature range (° C)	0 do +45°C
Standards and certificates	IEC62619 / UL1973 / UN38.3

## PFH family energy storage - general specification

### OUTER CASING

Interface	Status LEDs and buttons, application
Integrated security	Overvoltage, overcurrent, short circuit, residual current
Level of security	IP 20
Module weight (kg)	200 ~ 400kg
Dimensions (mm)	800S × 2000W × 500G
Working temperature range (° C)	0°C do 45°C

Model	5 kW	6 kW	8 kW	10 kW	12 kW
<b>Battery input parameters</b>					
Voltage range (V)	40 - 60 V				
Max. charging current (A)	120 A	150 A	190 A	210 A	240 A
Max. discharge current (A)	120 A	150 A	190 A	210 A	240 A
Loading strategy	3-stage + Equalizing charge or self-adapting to the BMS li-ion system				
Outside temperature sensor	Tak				
<b>PV input parameters</b>					
Max. DC input power (W)	6 500 W	7 800 W	10 400 W	13 000 W	15 600 W
Rated PV voltage (range) (V)	550 V (160 V - 800V)				
Starting voltage (V)	160 V				
MPPT range (V)	200 V - 650 V				
PV Input Current (A)	13 A + 13 A			26 A + 13 A	
Number of MPPT / Number of strings per MPPT	2 / 1+1			2 / 2+1	

## HYBRID INVERTER

Model	5 kW	6 kW	8 kW	10 kW	12 kW
<b>AC output parameters</b>					
Rated Power	5 000 W	6 000 W	8 000 W	10 000 W	12 000 W
AC mains / island power(W)	5 500 W	6 600 W	8 800 W	11 000 W	13 200 W
Maximum AC power (W)	2 - times the rated power for 10 seconds				
Peak power supply	7.6	9.1	12.1	15.2	18.2
Max. transmitted current AC (A)	45A				
Power factor	From 0.8 capacitive to 0.8 inductive				
AC voltage and frequency	Three phases,3L/N/PE 220/380Vac, 230/400Vac, 50/60Hz;				
Harmonic distortion of the current	THD <3% (for linear load <1.5%)				
<b>Efficiency</b>					
Efficiency max.	97.60%				
EURO efficiency	97.00%				
MPPT efficiency	99.90%				

Security	
Integrated security	PV input: overvoltage, against PV reverse polarity AC output: overvoltage, overcurrent, short circuit Anti-islanding, insulation resistance detection, leakage current detection
Surge protection	DC Type II / AC Type II
Standards and certificates	
Network Codes	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
Security i EMC	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

<b>General information</b>	
<b>Range operating temperatures (°C)</b>	-45~+60°C, >45°C power reduction
<b>Cooling</b>	Adjustable ventilation
<b>Noise (dB)</b>	<45 dB
<b>Communication with BMS</b>	RS485; CAN
<b>Weight (kg)</b>	34.5
<b>Dimensions (mm)</b>	422S×702W×281G
<b>Level of security</b>	IP65

NAME OF GOODS	SERVICES NET PRICE
Energy storage type <b>STAY-ON PFH 5/10</b> 5kW bidirectional converter Li-Ion batteries - installed capacity - 10.24kWh	EUR 12 620,00
Energy storage type <b>STAY-ON PFH 8/10</b> 8kW bidirectional converter Li-Ion batteries - installed capacity - 10.24kWh	EUR 13 130,00
Energy storage type <b>STAY-ON PFH 10/10</b> 10kW bidirectional converter Li-Ion batteries - installed capacity - 10.24kWh	EUR 13 770,00
Energy storage type <b>STAY-ON PFH 12/10</b> 12kW bidirectional converter Li-Ion batteries - installed capacity - 10.24kWh	EUR 14 160,00
Energy storage type <b>STAY-ON PFH 5/20</b> 5kW bidirectional converter Li-Ion batteries - installed capacity - 20.48kWh	EUR 17 760,00
Energy storage type <b>STAY-ON PFH 8/20</b> 8kW bidirectional converter Li-Ion batteries - installed capacity - 20.48kWh	EUR 18 280,00
Energy storage type <b>STAY-ON PFH 10/20</b> 10kW bidirectional converter Li-Ion batteries - installed capacity - 20.48kWh	EUR 18 920,00
Energy storage type <b>STAY-ON PFH 12/20</b> 12kW bidirectional converter Li-Ion batteries - installed capacity - 20.48kWh	EUR 19 310,00
Energy storage type <b>STAY-ON PFH 5/30</b> 5kW bidirectional converter Li-Ion batteries - installed capacity - 30.96kWh	EUR 22 920,00
Energy storage type <b>STAY-ON PFH 8/30</b> 8kW bidirectional converter Li-Ion batteries - installed capacity - 30.96kWh	EUR 23 420,00
Energy storage type <b>STAY-ON PFH 10/30</b> 10kW bidirectional converter	EUR 24 070,00

**PRICE  
OFFER**

# The price does not include:

- ▶ Delivery of the product to the customer in Poland (the price does not include unloading and foundation)
- ▶ Activation
- ▶ Installation and commissioning of installations and teletechnical functionalities outside the energy storage
- ▶ The installation does not include the preparation of construction and electrical infrastructure for connecting the energy storage
- ▶ Construction and preparatory investment works
- ▶ Obtaining permits to use the energy storage and other necessary permits required in a given location
- ▶ Power costs for installation and commissioning
- ▶ Energy purchase costs for installation, commissioning and testing of the system
- ▶ It does not include the connection of the energy storage to external devices
- ▶ Preparation of documentation and as-built design of the installation to which the energy storage will be connected

## The price complements:

- ▶ Production and delivery of the product to the customer

## Conditions of delivery:

- ▶ According to individual arrangements



## Terms of payment:

- ▶ According to individual arrangements



# Terms of warranty:

- ▶ 60 months for devices (assuming proper operation) - the warranty does not cover the capacity parameters of the energy storage depending on the way the product is used.
- ▶ Available warranty extension for devices under the terms of a service contract with STAYON Storage Engineering Sp. z o.o. - independent valuation required up to 1 month after product launch and commissioning.
- ▶ In the event that, during the warranty period, there is a defect that interferes with the normal operation of the device, the removal of which should be made under the warranty, the Ordering Party will only be entitled to a claim for repair of the device, he will not be entitled to a claim to replace the entire device with a new one, free from defects, or also the right to withdraw from the contract
- ▶ Any unauthorized modifications or design changes, improper use (inconsistent with the User Manual) and mechanical damage to the device will void the warranty.
- ▶ In order to ensure continuous functionality and operation of the system after the warranty period, it is recommended to sign the above-mentioned service contract for the offered system. Estimated cost: 10% of the offer value for each year of warranty extension. The final cost depends on the scope, working conditions of the product and the period of the service contract.
- ▶ Remote access to diagnostic data of the energy storage system is required during the warranty period.

In the event of changes in the USD / PLN exchange rate by +/- 5% during the term of the contract, we reserve the right to verify the offer.

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