

# Product Environmental Profile



## MODULYS XM

Uninterruptible Power Supply up to 650 kVA



### The commitments of Socomec to respect the environment

As part of its environmental policy, Socomec is committed to:

- Incorporate the principles of the circular economy into the design of new products and services
- Promote longer product lifetimes
- Promote the use of environmentally responsible materials
- Design and develop solutions to further improve the energy efficiency of our products and services
- Inform our customers in a transparent manner about the environmental impact of our products throughout their life cycle.

To this end, Socomec is committed to constantly monitoring, anticipating and complying with environmental regulations as well as customer expectations relating to its products, and to ensuring that all those involved adhere to and take responsibility for its commitments.

Socomec is member of :

**ecosystem**

Member of WEEE Europe



**Gimélec**

Environment and sustainable development commissions



PEP ecopassport® Registration number: SOCO-00056-V01.03-EN

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**socomec**  
Innovative Power Solutions

● **Product information :**

| <b>Reference product</b>       |  |
|--------------------------------|--|
| Model                          | MODULYS XM300                              |
| Sales reference                | M5-S-300-82-0 + M5-PI-50                   |
| Description                    | Uninterruptible Power Supply up to 650 kVA |
| <b>General data</b>            |  |
| UPS Configuration              | Single                                     |
| UPS topology                   | Double conversion                          |
| UPS Performance classification | VFI-SS-11                                  |
| Number of phases available     | Three phase                                |
| Power [W]                      | 50000                                      |
| Apparent power [VA]            | 50000                                      |
| Acoustic noise [dBA]           | < 57 dBA                                   |
| <b>Efficiency</b>              |  |
| Weighted UPS efficiency [%]    | 96,18%                                     |
| <b>Weight &amp; dimensions</b> |  |
| Dimensions W*H*D [mm]          | 600x1990x890                               |
| Mass without packaging [kg]    | 289,10                                     |
| Mass of the packaging [kg]     | 30,90                                      |

The UPS is not equipped with an energy storage system.

**Functional unit :**

To ensure the supply of power to remain within specified characteristics to equipment with load of 100 watts for a RSL of 1 years.

**Declared unit :**

To ensure the supply of power to remain within specified characteristics to equipment with load of 50000 watts for a RSL of 15 years.

*Mathematic relation between DU (declared unit) and FU (functional unit) mentioned in PSR-0010-ed2.0-EN 2023 12 08*

**References covered by this PEP with extrapolation rules:**

- MODULYS XM300 50 kW (1 Module) with sales references: M5-S-300-82-0 + M5-PI-50
- MODULYS XM300 100 kW (2 Modules) with sales references: M5-S-300-82-0 + 2x M5-PI-50
- MODULYS XM300 150 kW (3 Modules) with sales references: M5-S-300-82-0 + 3x M5-PI-50
- MODULYS XM300 200 kW (4 Modules) with sales references: M5-S-300-82-0 + 4x M5-PI-50
- MODULYS XM300 250 kW (5 Modules) with sales references: M5-S-300-82-0 + 5x M5-PI-50
- MODULYS XM300 300 kW (6 Modules) with sales references: M5-S-300-82-0 + 6x M5-PI-50
- MODULYS XM650 100 kW (2 Modules) with sales references: M5-S-650-82-0 + 2x M5-PI-50
- MODULYS XM650 150 kW (3 Modules) with sales references: M5-S-650-82-0 + 3x M5-PI-50
- MODULYS XM650 200 kW (4 Modules) with sales references: M5-S-650-82-0 + 4x M5-PI-50
- MODULYS XM650 250 kW (5 Modules) with sales references: M5-S-650-82-0 + 5x M5-PI-50
- MODULYS XM650 300 kW (6 Modules) with sales references: M5-S-650-82-0 + 6x M5-PI-50
- MODULYS XM650 350 kW (7 Modules) with sales references: M5-S-650-82-0 + 7x M5-PI-50
- MODULYS XM650 400 kW (8 Modules) with sales references: M5-S-650-82-0 + 8x M5-PI-50
- MODULYS XM650 450 kW (9 Modules) with sales references: M5-S-650-82-0 + 9x M5-PI-50
- MODULYS XM650 500 kW (10 Modules) with sales references: M5-S-650-82-0 + 10x M5-PI-50
- MODULYS XM650 550 kW (11 Modules) with sales references: M5-S-650-82-0 + 11x M5-PI-50
- MODULYS XM650 600 kW (12 Modules) with sales references: M5-S-650-82-0 + 12x M5-PI-50
- MODULYS XM650 650 kW (13 Modules) with sales references: M5-S-650-82-0 + 13x M5-PI-50
- MODULYS XM500 100 kW (2 Modules) with sales references: M5-S-500-82-0 + 2x M5-PI-50

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- MODULYS XM500 150 kW (3 Modules) with sales references: M5-S-500-82-0 + 3x M5-PI-50
- MODULYS XM500 200 kW (4 Modules) with sales references: M5-S-500-82-0 + 4x M5-PI-50
- MODULYS XM500 250 kW (5 Modules) with sales references: M5-S-500-82-0 + 5x M5-PI-50
- MODULYS XM500 300 kW (6 Modules) with sales references: M5-S-500-82-0 + 6x M5-PI-50
- MODULYS XM500 350 kW (7 Modules) with sales references: M5-S-500-82-0 + 7x M5-PI-50
- MODULYS XM500 400 kW (8 Modules) with sales references: M5-S-500-82-0 + 8x M5-PI-50
- MODULYS XM500 450 kW (9 Modules) with sales references: M5-S-500-82-0 + 9x M5-PI-50
- MODULYS XM500 500 kW (10 Modules) with sales references: M5-S-500-82-0 + 10x M5-PI-50

## Characteristics of the covered references:

| Model                             | Power [W] | Weighted UPS efficiency [%] | Product mass [kg] | Packaging mass [kg] |
|-----------------------------------|-----------|-----------------------------|-------------------|---------------------|
| MODULYS XM300 50 kW (1 Module)    | 50000     | 96,18%                      | 289               | 31                  |
| MODULYS XM300 100 kW (2 Modules)  | 100000    | 96,18%                      | 325               | 37                  |
| MODULYS XM300 150 kW (3 Modules)  | 150000    | 96,18%                      | 361               | 43                  |
| MODULYS XM300 200 kW (4 Modules)  | 200000    | 96,18%                      | 397               | 49                  |
| MODULYS XM300 250 kW (5 Modules)  | 250000    | 96,18%                      | 433               | 55                  |
| MODULYS XM300 300 kW (6 Modules)  | 300000    | 96,18%                      | 469               | 61                  |
| MODULYS XM650 100 kW (2 Modules)  | 100000    | 96,18%                      | 669               | 77                  |
| MODULYS XM650 150 kW (3 Modules)  | 150000    | 96,18%                      | 705               | 83                  |
| MODULYS XM650 200 kW (4 Modules)  | 200000    | 96,18%                      | 741               | 89                  |
| MODULYS XM650 250 kW (5 Modules)  | 250000    | 96,18%                      | 777               | 95                  |
| MODULYS XM650 300 kW (6 Modules)  | 300000    | 96,18%                      | 813               | 101                 |
| MODULYS XM650 350 kW (7 Modules)  | 350000    | 96,18%                      | 849               | 107                 |
| MODULYS XM650 400 kW (8 Modules)  | 400000    | 96,18%                      | 885               | 113                 |
| MODULYS XM650 450 kW (9 Modules)  | 450000    | 96,18%                      | 921               | 119                 |
| MODULYS XM650 500 kW (10 Modules) | 500000    | 96,18%                      | 957               | 125                 |
| MODULYS XM650 550 kW (11 Modules) | 550000    | 96,18%                      | 993               | 131                 |
| MODULYS XM650 600 kW (12 Modules) | 600000    | 96,18%                      | 1029              | 137                 |
| MODULYS XM650 650 kW (13 Modules) | 650000    | 96,18%                      | 1065              | 143                 |
| MODULYS XM500 100 kW (2 Modules)  | 100000    | 96,18%                      | 445               | 37                  |
| MODULYS XM500 150 kW (3 Modules)  | 150000    | 96,18%                      | 480               | 37                  |
| MODULYS XM500 200 kW (4 Modules)  | 200000    | 96,18%                      | 515               | 37                  |
| MODULYS XM500 250 kW (5 Modules)  | 250000    | 96,18%                      | 550               | 37                  |
| MODULYS XM500 300 kW (6 Modules)  | 300000    | 96,18%                      | 585               | 37                  |
| MODULYS XM500 350 kW (7 Modules)  | 350000    | 96,18%                      | 620               | 37                  |
| MODULYS XM500 400 kW (8 Modules)  | 400000    | 96,18%                      | 655               | 37                  |
| MODULYS XM500 450 kW (9 Modules)  | 450000    | 96,18%                      | 690               | 37                  |
| MODULYS XM500 500 kW (10 Modules) | 500000    | 96,18%                      | 725               | 37                  |



## • Use phase

### Consumption scenario

Use phase scenario: European energy mix

|                                     |     |     |     |      |
|-------------------------------------|-----|-----|-----|------|
| <b>Load (%)</b>                     | 25% | 50% | 75% | 100% |
| <b>Proportion of time spent (%)</b> | 25% | 50% | 25% | 0%   |

Total energy consumption during 15 years

|   |            |
|---|------------|
| <b>Total average energy consumption</b> | 125241 kWh |
| <b>Average UPS efficiency</b>           | 96,18%     |

### Care and maintenance

It is recommended to carry out periodic specialized maintenance in order to keep the equipment at the maximum level of efficiency and to avoid the installation being out of service with possible damage/risks.

Typical parts which are subjects to maintenance:

|                              |                        |                        |      |
|------------------------------|------------------------|------------------------|------|
| <b>Components</b>            | DC capacitor filtering | AC capacitor filtering | Fans |
| <b>Number of replacement</b> | 2                      | 2                      | 3    |

### Consumables

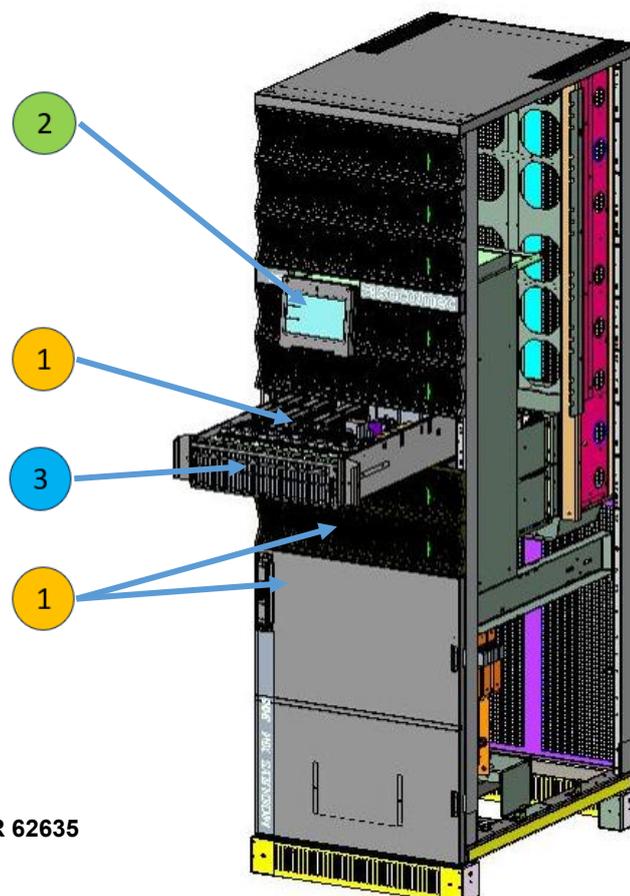
The product does not require consumables.

## • End of life

### End of life treatment

The following parts require specific care and selective treatment in accordance with Annex VII of the WEEE Directive 2012/19/EU: Waste of electrical and electronic equipment. Maintenance and disassembly should always be conducted by qualified personnel.

| Item           | Part mass | Location |
|----------------|-----------|----------|
| Electronic PCB | 13,9 kg   | 1        |
| LCD screen     | 0,6 kg    | 2        |
| Capacitors     | 2,6 kg    | 3        |



### Recyclability potential of the product according to IEC TR 62635

The recyclability potential of the product is 77,97%.

This covers material and energy recovery potentials.

## • Additional information



This environmental declaration lists the information required in Annex A and B of IEC 62040-4 (Edition 1.0 2013-04) and EN 62040-4:2013 (2014-03).

## • Environmental impacts

### Calculation methodology: life cycle assessment (LCA)



The calculation of the impacts on the environment was made using a life cycle assessment methodology in accordance with the ISO 14040 requirements and with PEP eco passport product category rules.

For more details follow the link:

[www.pep-ecopassport.org](http://www.pep-ecopassport.org)

This study was carried out with the following version of the software EIME and of the database:

EIME version: EIME V6.0.2

Database version: CODDE-2023-02

For biogenic carbon storage the following methodology was used : 0/0

The whole life cycle has been taken into account:

| Step                             | Geographical representativeness   | Scenario  |
|----------------------------------|---|---|
| <b>Manufacturing (M) (A1-A3)</b> | Production of electronic components : Asia<br>Production of other components and packaging : Europe<br>Assembly : Italy | From the raw material extraction to the last Socomec logistic platform, including packaging<br>Waste generated during manufacturing phase are taken into account. |
| <b>Distribution (D) (A4)</b>     | Distribution scenario : Europe  | From the last Socomec logistic platform to the final customer.<br>No product reconditionning.   |
| <b>Installation (I) (A5)</b>     | Transport and treatment of packaging wastes : Local   | Local road transport of 1000 km of generated wastes to the treatment site, end of life treatment.   |
| <b>Use phase (U) (B1-B7)</b>     | Energy mix : Europe<br>Production of maintenance components: analog to manufacturing phase                              | Power consumption required during 15 years according to consumption scenario above mentioned.   |
| <b>End of life (EOL) (C1-C4)</b> | Transport and treatment : Local   | Road transport of 1000 km from the final customer to the treatment sites.<br>End of life treatment.   |

## Environmental impacts of the MODULYS XM300 per functional unit (power of 100W and a lifespan of 1 year)

The following impacts have been calculated to best represent geographically, temporally and technologically each step of the life cycle.

| Indicators  | Unit               | Total impact | M (A1-A3) | D (A4)   | I (A5)   | U (B1-B7) | EOL (C1-C4) |
|---|--------------------|--------------|-----------|----------|----------|-----------|-------------|
| Acidification   | mol H+ eq.         | 4,25E-02     | 3,22E-03  | 4,77E-05 | 6,32E-06 | 3,92E-02  | 1,26E-05    |
| Climate change - Total  | kg CO2 eq.         | 7,18E+00     | 3,01E-01  | 7,53E-03 | 2,35E-03 | 6,86E+00  | 2,01E-03    |
| Climate change - Biogenic   | kg CO2 eq.         | 1,77E-02     | 7,81E-03  | 0*       | 6,48E-05 | 9,87E-03  | 0*          |
| Climate change - Fossil   | kg CO2 eq.         | 7,16E+00     | 2,94E-01  | 7,53E-03 | 2,28E-03 | 6,85E+00  | 2,01E-03    |
| Climate change - Land use and land use transformation   | kg CO2 eq.         | 4,68E-07     | 4,56E-07  | 0*       | 9,88E-09 | 1,59E-09  | 0*          |
| Ecotoxicity, freshwater   | CTUe               | 8,47E+01     | 9,99E+00  | 0*       | 3,96E-02 | 7,47E+01  | 0*          |
| Particulate matter  | disease occurrence | 3,26E-07     | 2,01E-08  | 3,88E-10 | 4,42E-11 | 3,05E-07  | 1,02E-10    |
| Eutrophication, freshwater  | kg P eq.           | 1,99E-05     | 9,16E-07  | 2,82E-09 | 2,69E-08 | 1,89E-05  | 3,26E-08    |
| Eutrophication, marine  | kg N eq.           | 4,83E-03     | 3,42E-04  | 2,23E-05 | 2,70E-06 | 4,45E-03  | 5,82E-06    |
| Eutrophication, terrestrial   | mol N eq.          | 7,09E-02     | 3,72E-03  | 2,45E-04 | 2,30E-05 | 6,68E-02  | 6,39E-05    |
| Human toxicity, cancer  | CTUh               | 2,57E-06     | 2,57E-06  | 0*       | 0*       | 5,88E-09  | 0*          |
| Human toxicity, non-cancer  | CTUh               | 5,54E-08     | 2,28E-08  | 1,43E-11 | 1,25E-11 | 3,26E-08  | 0*          |
| Ionising radiation, human health  | kBq U235 eq.       | 4,96E+01     | 3,92E+01  | 0*       | 0*       | 1,04E+01  | 0*          |
| Land use  | No dimension       | 1,44E-01     | 5,04E-03  | 0*       | 1,46E-03 | 1,37E-01  | 0*          |
| Ozone depletion   | kg CFC-11 eq.      | 5,68E-08     | 2,49E-08  | 1,15E-11 | 3,33E-11 | 3,19E-08  | 0*          |
| Photochemical ozone formation, human health   | kg NMVOC eq.       | 1,56E-02     | 1,21E-03  | 6,18E-05 | 5,45E-06 | 1,43E-02  | 1,61E-05    |
| Abiotic resource depletion - fossil fuels or resource depletion - fossils                       | MJ                 | 1,87E+02     | 1,20E+01  | 1,05E-01 | 0*       | 1,75E+02  | 2,81E-02    |
| Abiotic resource depletion - elements or resource depletion - metals and minerals               | kg Sb eq.          | 1,92E-05     | 1,72E-05  | 0*       | 0*       | 2,05E-06  | 0*          |
| Water use   | m³ eq.             | -7,35E-01    | -1,00E+00 | 0*       | 0*       | 0*        | 0*          |
| Net use of freshwater   | m³                 | -1,71E-02    | -2,33E-02 | 0*       | 0*       | 0*        | 0*          |
| Total Primary Energy  | MJ                 | 2,21E+02     | 1,22E+01  | 1,05E-01 | 2,99E-02 | 2,08E+02  | 2,82E-02    |
| Total use of non-renewable primary energy resources   | MJ                 | 1,87E+02     | 1,20E+01  | 1,05E-01 | 0*       | 1,75E+02  | 2,81E-02    |
| Total use of renewable primary energy resources   | MJ                 | 3,37E+01     | 2,09E-01  | 0*       | 1,33E-02 | 3,35E+01  | 0*          |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ                 | 1,87E+02     | 1,18E+01  | 1,05E-01 | 0*       | 1,75E+02  | 2,81E-02    |
| Use of non renewable primary energy resources used as raw material                              | MJ                 | 1,91E-01     | 1,69E-01  | 0*       | 0*       | 2,14E-02  | 0*          |
| Use of non renewable secondary fuels  | MJ                 | 0,00E+00     | 0*        | 0*       | 0*       | 0*        | 0*          |
| Use of renewable primary energy excluding renewable primary energy used as raw material         | MJ                 | 3,36E+01     | 1,10E-01  | 0*       | 1,33E-02 | 3,35E+01  | 0*          |
| Use of renewable primary energy resources used as raw material                                  | MJ                 | 1,01E-01     | 9,98E-02  | 0*       | 0*       | 7,78E-04  | 0*          |
| Use of renewable secondary fuels  | MJ                 | 0,00E+00     | 0*        | 0*       | 0*       | 0*        | 0*          |
| Use of secondary material   | kg                 | 9,70E-06     | 9,70E-06  | 0*       | 0*       | 0*        | 0*          |
| Hazardous waste disposed  | kg                 | 1,24E+00     | 1,03E+00  | 0*       | 0*       | 2,11E-01  | 0*          |
| Non hazardous waste disposed  | kg                 | 1,21E+00     | 1,88E-01  | 2,64E-04 | 2,59E-03 | 1,02E+00  | 1,12E-03    |
| Radioactive waste disposed  | kg                 | 4,13E-04     | 1,83E-04  | 1,88E-07 | 1,01E-07 | 2,29E-04  | 8,35E-08    |
| Components for reuse  | kg                 | 0,00E+00     | 0*        | 0*       | 0*       | 0*        | 0*          |
| Exported Energy   | MJ                 | 9,19E-04     | 9,19E-04  | 0*       | 0*       | 0*        | 0*          |
| Materials for energy recovery   | kg                 | 2,15E-03     | 0*        | 0*       | 2,15E-03 | 0*        | 0*          |
| Materials for recycling   | kg                 | 9,64E-04     | 1,05E-05  | 0*       | 9,49E-04 | 4,71E-06  | 0*          |

Biogenic carbon content in the reference product:

|  |         |          |          |     |     |     |     |
|--|---------|----------|----------|-----|-----|-----|-----|
| <b>Biogenic carbon content of the product</b>              | kg of C | 0,00E+00 | 0*       | N/A | N/A | N/A | N/A |
| <b>Biogenic carbon content of the associated packaging</b> | kg of C | 9,94E+00 | 9,94E+00 | N/A | N/A | N/A | N/A |

*NB : 0\* means that this impact either represents less than 0.01% of the total life cycle of the reference flow, or has no impact (in the case where the total impact is zero).*

The aforementioned impacts (except for the biogenic carbon content) are declared for the functional unit of the reference product.

The environmental impacts of the reference product per declared unit can be calculated by multiplying the values of the environmental indicators by the factor available in the following table.

|                         |                      |
|-------------------------|----------------------|
| <b>Life cycle phase</b> | All life cycle phase |
| <b>Factor</b>           | 7500                 |

|  |  |
|--|--|
| Registration number : SOCO-00056-V01.03-EN   | Drafting Rules : "PEP-PCR-ed4-EN 2021 09 06"<br>Supplemented by : "PSR-0010-ed2.0-EN 2023 12 08"           |
| Verifier accreditation number : VH12   | Information and reference documents : <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a> |
| Date of issue: 01/01/2024  | Validity period : 5 years  |
| Independant verification of the declaration and data, in compliance with ISO 14025 : 2006  |  |
| Internal : <input checked="" type="checkbox"/> External : <input type="checkbox"/>   |                       |
| The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)<br>PEPs are compliant with XP C08-100-1 : 2016 or EN 50693:2019<br>The components of the present PEP may not be compared with components from any other program. |  |
| Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"   |  |

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## Other covered references

For the products covered by the PEP other than the reference product, the environmental impacts of each phase of the lifecycle are calculated by multiplying the declared unit impacts values with the following extrapolation factors:

| Model                             | M (A1-A3) | D (A4) | I (A5) | U (B1-B7) | EOL (C1-C4) |
|-----------------------------------|-----------|--------|--------|-----------|-------------|
| MODULYS XM300 50 kW (1 Module)    | 1,00      | 1,00   | 1,00   | 1,00      | 1,00        |
| MODULYS XM300 100 kW (2 Modules)  | 1,13      | 1,13   | 1,20   | 2,00      | 1,12        |
| MODULYS XM300 150 kW (3 Modules)  | 1,26      | 1,26   | 1,39   | 3,00      | 1,25        |
| MODULYS XM300 200 kW (4 Modules)  | 1,39      | 1,39   | 1,59   | 4,00      | 1,37        |
| MODULYS XM300 250 kW (5 Modules)  | 1,53      | 1,53   | 1,78   | 5,00      | 1,50        |
| MODULYS XM300 300 kW (6 Modules)  | 1,66      | 1,66   | 1,97   | 6,00      | 1,62        |
| MODULYS XM650 100 kW (2 Modules)  | 2,33      | 2,33   | 2,49   | 2,00      | 2,31        |
| MODULYS XM650 150 kW (3 Modules)  | 2,46      | 2,46   | 2,69   | 3,00      | 2,44        |
| MODULYS XM650 200 kW (4 Modules)  | 2,59      | 2,59   | 2,88   | 4,00      | 2,56        |
| MODULYS XM650 250 kW (5 Modules)  | 2,73      | 2,73   | 3,07   | 5,00      | 2,69        |
| MODULYS XM650 300 kW (6 Modules)  | 2,86      | 2,86   | 3,27   | 6,00      | 2,81        |
| MODULYS XM650 350 kW (7 Modules)  | 2,99      | 2,99   | 3,46   | 7,00      | 2,94        |
| MODULYS XM650 400 kW (8 Modules)  | 3,12      | 3,12   | 3,66   | 8,00      | 3,06        |
| MODULYS XM650 450 kW (9 Modules)  | 3,25      | 3,25   | 3,85   | 9,00      | 3,19        |
| MODULYS XM650 500 kW (10 Modules) | 3,38      | 3,38   | 4,05   | 10,00     | 3,31        |
| MODULYS XM650 550 kW (11 Modules) | 3,51      | 3,51   | 4,24   | 11,00     | 3,43        |
| MODULYS XM650 600 kW (12 Modules) | 3,64      | 3,64   | 4,43   | 12,00     | 3,56        |
| MODULYS XM650 650 kW (13 Modules) | 3,78      | 3,78   | 4,63   | 13,00     | 3,68        |
| MODULYS XM500 100 kW (2 Modules)  | 1,51      | 1,51   | 1,21   | 2,00      | 1,54        |
| MODULYS XM500 150 kW (3 Modules)  | 1,62      | 1,62   | 1,21   | 3,00      | 1,66        |
| MODULYS XM500 200 kW (4 Modules)  | 1,73      | 1,73   | 1,21   | 4,00      | 1,78        |
| MODULYS XM500 250 kW (5 Modules)  | 1,83      | 1,83   | 1,21   | 5,00      | 1,90        |
| MODULYS XM500 300 kW (6 Modules)  | 1,94      | 1,94   | 1,21   | 6,00      | 2,02        |
| MODULYS XM500 350 kW (7 Modules)  | 2,05      | 2,05   | 1,21   | 7,00      | 2,14        |
| MODULYS XM500 400 kW (8 Modules)  | 2,16      | 2,16   | 1,21   | 8,00      | 2,26        |
| MODULYS XM500 450 kW (9 Modules)  | 2,27      | 2,27   | 1,21   | 9,00      | 2,39        |
| MODULYS XM500 500 kW (10 Modules) | 2,38      | 2,38   | 1,21   | 10,00     | 2,51        |