## 1800 V AC Switchgear for Photovoltaic

## New trend of photovoltaic installations and where our products are needed



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Less power losses
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PV energy shouldn't be considered any more an alternative source of energy. As it is becoming more cost-competitive, it is now an increasing reality.

One of the main reason for this, is the reduction of installations and maintenance cost. New trend consist in designing photovoltaic distribution network in 800 V AC instead of DC voltages with smaller string inverters close to the photovoltaic panels.

At the same time, the transmission of energy at higher voltages make possible to reduce power losses and the cost of the installation.

By using upper section cables, up to $300 \mathrm{~mm}^{2}$ for NH 1 and NH 3 , the voltage drop is reduced. In this way, the tendency in last inverters generation is to transmit at 800 V AC .

- Pronutec| Incoming
- Telergon |Outgoing


## INCOMING <br> pronutec

TRIVER+ 800 LV Vertical Fuse
Switches of Pronutec for 800 V AC


## OUTGOING <br> telerg

Switch disconnectors high perfomances range of Telergon for 800 V AC


## pronutec

, LV VERTICAL FUSE SWITCHES OF PRONUTEC FOR 800 V AC


## TRIVER+ 800

Pronutec has developed the new range TRIVER+ 800. A range of vertical fuse switches for photovoltaic application specifically designed for the protection and distribution of electric networks from the new string inverters with rated operational voltage levels of 800 V AC.

The AC distribution and the higher voltage, allow a more cost-competitive design of power networks in photovoltaic applications and less power losses. Another features are the safety of the range TRIVER+ 800 and the breaking capacity at these voltage levels.

Maintaining the well known advantages and features in Pronutec TRIVER+ family, this new range offers additional advantages:

Less power losses

- Tested switching capacity up to 800 V.
- Tested short circuit protection up to 120 kA
- Reliable protection by a consolidated technology based in DIN standard
- All operations can be made in comfortable and safe way by using both conventional or insulated tools.
- Compatible with 185 mm and 100 mm distance busbars.
- Available in sizes NH00/1/3, allows any combination for a flexible configuration and adaptable to any project.
- Complete range of connections for copper and aluminum terminals for different cable sections.



## NH 00| 185 mm busbar distance

| Reference | Type | Current | Fuse-link | Switching | Connections | Busbar <br> spacing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $443.72 .10 . X X$. YY.E8 | BTVC-DT / Depth 00 | 125 A | NH 00 | Three pole | Top / Bottom reversible | 185 mm |
| $443.72 .12 . X X . Y Y . E 8$ | BTVC-DT / Depth 2 | 125 A | NH 00 | Three pole | Top / Bottom reversible | 185 mm |

* For one pole switching options, please, consult.


## Terminal options



Adaptor plates


## pronutec

NH 1/3 | 185 mm busbar distance

| Reference | Type | Current | Fuse-link | Switching | Connections | Busbar spacing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $438.71 .10 . X X$. YY.E8 | BTVC-DT | 315 A | NH 1 | Three pole | Top / Bottom reversible | 185 mm |
| $438.73 .10 . X X . Y Y . E 8$ | BTVC-DT | 500 A | NH 3 | Three pole | Top / Bottom reversible | 185 mm |

* For one pole switching options, please, consult.

Terminal options

| Reference | XX <br> Code | Type of terminal | Torque |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Nm) |  |  |  |$\quad$ Cross section (mm2)

05
00

Cross section up to $300 \mathrm{~mm}^{2}$, the voltage drop is reduced

Micro-switch available for all sizes


## Vertical Switch Disconnectors

| Size | Current |
| :---: | :---: |
| NH 3 | 1000 A |

Please, consult.


One pole Fuse Bases - 800 V AC


1 pole LV Fuse Switches - 800 V AC

| Size | Current |
| :---: | :---: |
| NH 00 | Contact our |
| NH1 commercial department |  |

## Horizontal design fuse switch disconnectors



