

## Tenka Power Guard 2-2



### Tenka Power Guard 2-2 PV generator junction box - Product features



#### Universal compatibility

Suitable for all common inverters and solar modules



#### PV generator junction box

For photovoltaic systems up to 1,100 V DC and 40 A



#### Surge protection type 1+2

T1 & T2 surge protection for maximum system safety



#### Complete installation kit

Contains all the necessary mounting and connection accessories



#### Flexibility in system design

Support for 2 independent MPPT trackers up to 4 PV strings



#### Indoor & Outdoor

IP65 protection class, for indoor and outdoor use

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## POWER GUARD-2-2

| Technical data sheet                          |                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------|
| Maximum DC input voltage                      | 1100 V                                                                                 |
| Number of MPPT tracker connections            | 2                                                                                      |
| Number of DC string inputs per MPPT           | 1 (Up to 2 strands when using Y-connectors)                                            |
| Max. current per string [ $I_{MPPT}$ ]        | 40 A                                                                                   |
| Number of outputs per MPPT                    | 1                                                                                      |
| Overvoltage protection                        |                                                                                        |
| Type                                          | T1 + T2                                                                                |
| Protection level [ $U_p$ ]                    | 3.5 kV                                                                                 |
| Total leakage impulse current [ $I_{total}$ ] | 5/40 kA                                                                                |
| Connectors                                    |                                                                                        |
| Type of DC connections                        | Stäubli MC 4                                                                           |
| Cable cross-section string input              | 4–6 mm <sup>2</sup> Solar Cable                                                        |
| Cable cross-section Earthing                  | max. 16 mm <sup>2</sup> YF                                                             |
| Type of PE connections                        | 2 x Screw clamp (bis 16 mm <sup>2</sup> ), M32 Screwed attachment (for 2 round cables) |
| General data                                  |                                                                                        |
| Material of the housing                       | Polycarbonat                                                                           |
| Cover/door material                           | Polycarbonat / Transparent                                                             |
| Protection class                              | IP65                                                                                   |
| Impact resistance                             | Ik10                                                                                   |
| Class of protection                           | II                                                                                     |
| Weight                                        | 2.6 kg                                                                                 |
| Dimensions                                    |                                                                                        |
| Width                                         | 296 mm                                                                                 |
| Height                                        | 230 mm without MC4, 260 mm with MC 4                                                   |
| Depth                                         | 120 mm                                                                                 |
| Environmental conditions                      |                                                                                        |
| Permissible operating temperature range       | -20°C to +60°C                                                                         |
| Max. relative humidity                        | 5–90% RH, non-condensing                                                               |
| Max. Operating height                         | 4,000 m                                                                                |
| Accessories supplied                          |                                                                                        |
| MC4 Staubli- Socket                           | 4 Stk. Crimp-Contact (4–6 mm <sup>2</sup> ) inclusive                                  |
| MC4 Staubli connector                         | 4 Stk. Crimp-Contact (4–6 mm <sup>2</sup> ) inclusive                                  |
| Assembly                                      | 4 pcs. Brackets for wall mounting                                                      |
| Standards and normative documents             |                                                                                        |
| EN 61439–1                                    | Low-voltage switchgear and controlgear assembly                                        |
| EN 61439–3                                    | Energy-switchgear combination                                                          |
| IEC60364–7–712                                | PV power supply systems                                                                |
| EN 62305–3 Supplement 5                       | Lightning and surge protection for PV power supply systems                             |
| EC Directive                                  |                                                                                        |
| Low Voltage Directive 2014/35/EU              |                                                                                        |
| Substance bans 2011/65/EU (ROHS)              |                                                                                        |