

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 ² Solar Cable
Cable cross-section Earthing	max. 16 mm ² YF
Type of PE connections	2 x Screw clamp (bis 16 mm ²), 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 ²) inclusive
MC4 Staubli connector	4 Stk. Crimp-Contact (4–6 mm ²) 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)	