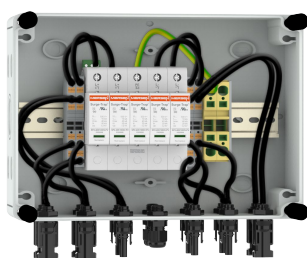


DC PV-Junction Boxes

SURGE PROTECTION FOR SOLAR-PHOTOVOLTAIC SYSTEMS

DC PV-JUNCTION BOXES



DC PV-Junction Box is the series of DC photovoltaic surge protection junction boxes for inverters to IEC/EN standard.

Such boxes are ready for installation and just need to be connected in parallel upstream of residential and lite commercial string inverters of several MPP trackers, mainly 1000Vdc rooftop installations.

Available in several configurations including Type 1 or Type 2 surge protection with MC4 or cable gland connectors. Please consult for availability and models, for instance 8 pole SPDs.

TECHNICAL DATA OVERVIEW

Class	Type 1+2 or Type 2
Body Material	Polycarbonate
Number of poles	3, 5
Format	Pluggable
Temperature range	-20 ... 55 ° C
Degree of protection	IP 65
Umax	1000 V

FEATURES & BENEFITS

- Pre-assembled junction box with SPDs for 1000VDC
- Quick installation of the DC protection, next to the inverter
- MC4 or cable gland connectors
- 1 or 2 MPPT versions
- 1 or 2 string inputs per MPPT
- Type 1+2 5kA limp or Type 2 40kA I_{max} SPDs
- Visual end of life indicator

APPLICATIONS

- Photovoltaic

STANDARDS

- IEC/EN 61439-12
- IEC/EN 61643-11



DC PV-Junction Boxes

PRODUCT RANGE

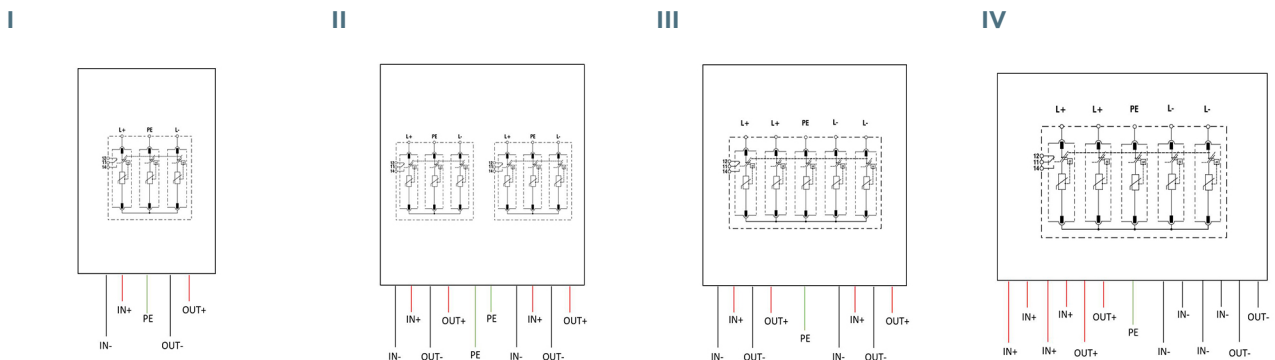
Type 1+2

Catalog number	Item number	Number of MPP trackers	String inputs per MPPT	I _{max} per string	Connector	Dimensions	Pluggable cartridge description	Electrical diagrams
PVBT12-1000V-BH-113	83070102	1	1	40 kA	MC4	A (130x180x111 mm)	SP12-5K1000V-PV	I
PVBT12-1000V-BH-213	83070106	2	1	40 kA	MC4	B (180x182x111 mm)	SP12-5K1000V-PV	II
PVBT12-1000V-BH-225	83070110	2	2	20 kA	MC4	C (180x254x111 mm)	SP12-5K1000V-PV	IV
PVBT12-1000V-B-225	83070010	2	2	20 kA	Cable gland	C (180x254x111 mm)	SP12-5K1000V-PV	IV
PVBT12-1000V-B-113	83070002	1	1	40 kA	Cable gland	A (130x180x111 mm)	SP12-5K1000V-PV	I
PVBT12-1000V-B-213	83070006	2	1	40 kA	Cable gland	B (180x182x111 mm)	SP12-5K1000V-PV	II
PVBT12-1000V-B-215	83070016	2	1	40 kA	Cable gland	B (180x182x111 mm)	SP12-5K1000V-PV	III

Type 2

Catalog number	Item number	Number of MPP trackers	String inputs per MPPT	I _{max} per string	Connector	Dimensions	Pluggable cartridge description	Electrical diagrams
PVBT2-1000V-BH-113	83070100	1	1	40 kA	MC4	A (130x180x111 mm)	SP2-40K1000V-PV	I
PVBT2-1000V-BH-213	83070104	2	1	40 kA	MC4	B (180x182x111 mm)	SP2-40K1000V-PV	II
PVBT2-1000V-BH-225	83070108	2	2	20 kA	MC4	C (180x254x111 mm)	SP2-40K1000V-PV	IV
PVBT2-1000V-B-225	83070008	2	2	20 kA	Cable gland	C (180x254x111 mm)	SP2-40K1000V-PV	IV
PVBT2-1000V-B-113	83070000	1	1	40 kA	Cable gland	A (130x180x111 mm)	SP2-40K1000V-PV	I
PVBT2-1000V-B-213	83070004	2	1	40 kA	Cable gland	B (180x182x111 mm)	SP2-40K1000V-PV	II
PVBT2-1000V-B-215	83070014	2	1	40 kA	Cable gland	B (180x182x111 mm)	SP2-40K1000V-PV	III

ELECTRICAL DIAGRAMS



DIMENSIONS

