



DC PV-JUNCTION BOXES

WORLDWIDE
SPECIALIST IN
OVERVOLTAGE
PROTECTION



HIGH TECHNICAL SOLUTION
READY FOR INSTALLATION



In the field of protection for solar systems, Mersen is one of the driving forces, helping the development of safer and more reliable photovoltaic systems.

DC PV-Junction boxes are part of the HelioProtection® Program, Mersen platform of lightning and surge protection solutions specifically designed for the solar photovoltaic applications.

OVERVOLTAGE PROTECTION FOR PV SYSTEMS

Combiner box with SPD Type 1+2



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070102	PVBT12-1000V-BH-113	1	1	MC4



Item number	Catalog number	Number MPPT	String inputs per MPPT	Connector
83070106	PVBT12-1000V-BH-213	2	1	MC4



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070110	PVBT12-1000V-BH-225	2	1-2	MC4



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070002	PVBT12-1000V-B-113	1	1	Cable gland



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070006	PVBT12-1000V-B-213	2	1	Cable gland



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070010	PVBT12-1000V-B-225	2	1-2	Cable gland



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070120	PVBT12-1000V-B-133M	1	1-3	Cable gland



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070114	PVBT12-1000V-BH-313	3	1-3	MC4



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector	Additional device
83070116	PVBT12-1000V-BHS-123	1	1-2	MC4	DC switch



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector	Additional device
83070118	PVBT12-1000V-BHS-223	2	1-2	MC4	DC switch

Combiner box with SPD Type 1+2



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070100	PVBT2-1000V-BH-113	1	1	MC4



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070104	PVBT2-1000V-BH-213	2	1	MC4



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070108	PVBT2-1000V-BH-225	2	1-2	MC4



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070000	PVBT2-1000V-B-113	1	1	Cable gand



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070004	PVBT2-1000V-B-213	2	1	Cable gand



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070008	PVBT2-1000V-B-225	2	1-2	Cable gand



Item number	Catalog number	Number of MPPT	String inputs per MPPT	Connector
83070112	PVBT2-1000V-BH-313	3	1	MC4

PV SPD Type 1+2



Reference number	Catalog number	Ucpv	Iscpv	Iimp (10/350)	I _{max} (8/20)	I _n (8/20)	Up at In	Remote
83120167	STPT12-5K1000V-YPV	1060VDC	10 kA	5 kA	40 kA	20 kA	≤ 4kV	No
83120168	STPT12-5K1000V-YPVM	1060VDC	10 kA	5 kA	40 kA	20 kA	≤ 4kV	Yes
83120193	STPT12-5K1500V-YPV	1500VDC	10 kA	5 kA	40 kA	20 kA	≤ 5kV	No
83120194	STPT12-5K1500V-YPVM	1500VDC	10 kA	5 kA	40 kA	20 kA	≤ 5kV	Yes



Reference number	Catalog number	Ucpv	Iscpv	Iimp (10/350)	I _{max} (8/20)	I _n (8/20)	Up at In	Remote	System type
83120192	STPT12-5K1000V-5YPVM	1060VDC	10 kA	5 kA	40 kA	20 kA	≤ 4kV	Yes	3+, 1, 1PE
83120206	STPT12-5K1000V-5Y2PVM	1060VDC	10 kA	5 kA	40 kA	20 kA	≤ 4kV	Yes	2+, 2-, 1PE

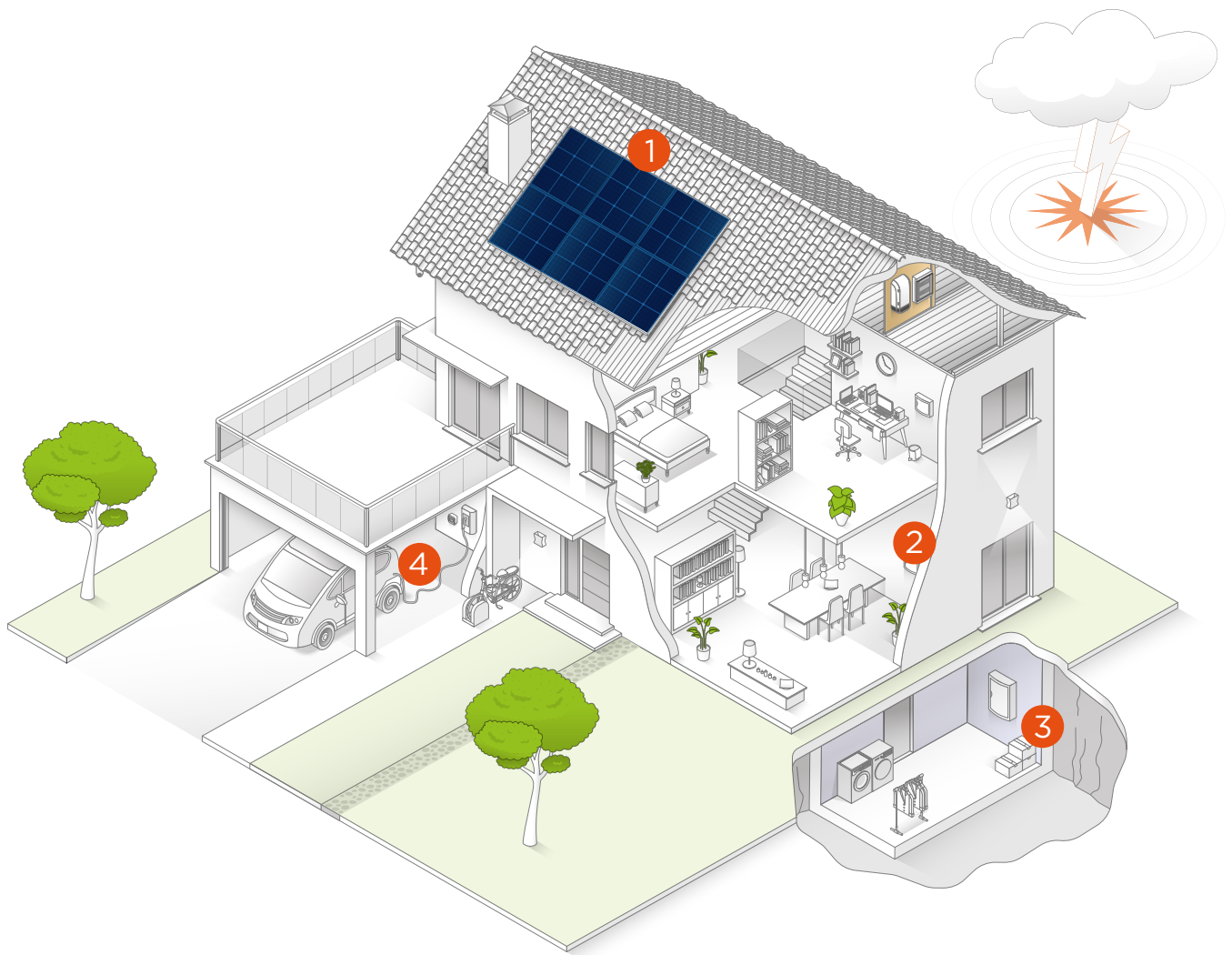
PV SPD Type 2



Reference number	Catalog number	Ucpv	Iscpv	I _{max} (8/20)	I _N (8/20)	Up at In	Remote
83020138	STPT2-40K600V-YPV	660VDC	10 kA	40 kA	20 kA	≤ 2,6kV	No
83020139	STPT2-40K600V-YPVM	660VDC	10 kA	40 kA	20 kA	≤ 2,6kV	Yes
83020140	STPT2-40K1000V-YPV	1060VDC	10 kA	40 kA	20 kA	≤ 4kV	No
83020141	STPT2-40K1000V-YPVM	1060VDC	10 kA	40 kA	20 kA	≤ 4kV	Yes
83020158	STPT2-40K1500V-YPV	1500VDC	10 kA	40 kA	15 kA	≤ 5kV	No
83020159	STPT2-40K1500V-YPVM	1500VDC	10 kA	40 kA	15 kA	≤ 5kV	Yes



Reference number	Catalog number	Ucpv	Iscpv	I _{max} (8/20)	I _N (8/20)	UP at In	Remote	System type
83020188	STPT2-40K1000V-5YPVM	1060VDC	10 kA	40 kA	20 kA	≤ 4kV	Yes	3+, 1-, 1PE
83020223	STPT2-40K1000V-5Y2PVM	1060VDC	10 kA	40 kA	20 kA	≤ 4kV	Yes	2+, 2-, 1PE



1 PHOTOVOLTAIC



PV SPD T1+2



PV SPD T2

2 SDB
Secondary distribution board



SPD T2



SPD T2 TERRA

3 MDB
Main distribution board

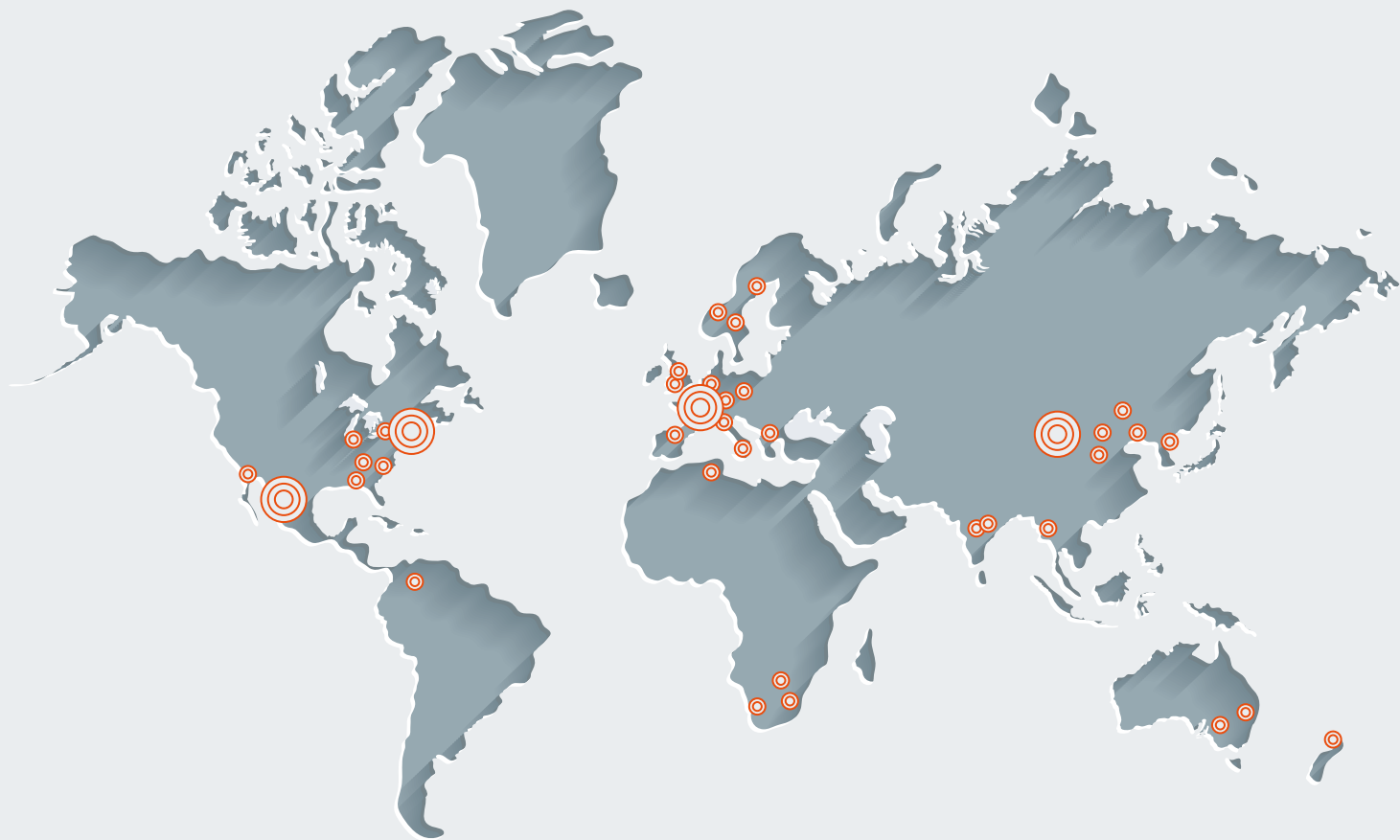


SPD T1+2

4 EV WALLBOX



SPD T2+3 EV



GLOBAL EXPERT
IN ELECTRICAL POWER
AND ADVANCED MATERIALS

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