

Hermetic connection box (SH-6 DC)

The boxes are designed for use in photovoltaic installations with or without insulated lightning protection systems, as well as in locations where a high IP protection rating is required. Their design is suitable for surface mounting.



- 2 x module chain for 2 MPPT
- 2 x DC surge arrester type 1+2
- Ready to connect
- Modular design
- MC4 panel connectors
- IP65 protection rating
- Transparent door
- Protection class: II
- Colour: white

THE HOUSING		
Model	PHS 8T	
Number of modules	8	
Compliance with	EN 60670-1, EN 62208	
Degree of protection	IP65	
Protection class	II	
Rated insulation voltage (Ui)	690 V AC, 1000 V DC	
Spark test	650°C	
Impact resistance	IK08	
Recyclable plastic	Halogen-free	

DC OVERCURRENT LIMITER USED

Manufacturer/model	PHOENIX/VAL-MS-T1/T2 1000DC-PV/2+V
Surge protection	Type 1+2
Maximum continuous voltage UCPV	1050 V DC
Short-circuit resistance I SCPV	2000 A
Long-term operating current ICPV	<20 uA
Rated load current IL	80 A
Protective conductor current IPE	<=20 uA DC <=250 uA AC
Power consumption in PC standby mode	<=25 mVA
Known current (8/20) us	15 kA
Max discharge current I _{max} (8/20) us	40 kA
Lightning current collector (10/350) us, load	2.5 As
Lightning current (10/350) us, specific energy	6.25 kJ/OM
Lightning current (10/350) us, peak value I _{imp}	5 kA
Total discharged current I _{total} (8/20) us	40 kA
Total discharge current I _{total} (10/350) us	5 kA
Protection level Up	<= 3.5 kV
Residual voltage U _{res}	≤ 3.5 kV (at I _n)
	≤ 2.9 kV (at 5 kA)
	≤ 3.2 kV (at 10 kA)
	<= 3.7 kV (at 20 kA)
	≤ 4.1 kV (at 30 kA)
	≤ 4.6 kV (at 40 kA)
Response time t _A	≤ 25 ns
Insulation resistance R _{iso}	<= 5 Giga OM (at 500 VDC)