

MDCDB PV Combiner And Distribution Box



Overview

Suitable for household and industrial and commercial photovoltaic power generation systems;
 Integrated DC junction box and AC distribution box;
 Maximum suitable for 6kW single-phase photovoltaic power generation system;
 Maximum applicable to 20kW three-phase photovoltaic power generation system;
 Meet customer's customized needs.



Model	Voltage	Maximum system power	Optional
MDCDB-S3	600V	3kW	1. Meter
MDCDB-S6	600V	6kW	2. AC fuses
MDCDB-T10	1000V	10kW	3. Overvoltage protection device
MDCDB-T20	1000V	20kW	4. other

Technical Parameters

Model	MDCDB-1	MDCDB-2	MDCDB-3	MDCDB-4
Basic parameters				
DC input string	1 string	2 string	2 string	4 string
DC output string	1 string	2 string	2 string	4 string
Maximum DC input voltage	600V	600V	1000V	1000V
Maximum DC short-circuit current	15A to 32A (Optional)			
Maximum DC output current	32A			
Rated AC voltage	220 / 230 / 240V AC	220 / 230 / 240V AC	380 / 400 / 415V AC	380 / 400 / 415V AC
Rated AC current	13.6A/16A	27.3A/32A	15.2A/20A	30.4A/40A
Rated frequency	50/60 Hz			
Optional function				
Meter	Optional			
AC fuses	Optional			
Overvoltage protection device	Optional			
DC monitoring	Optional			
AC leakage protector	Optional			

Technical Parameters				
Model	MDCDB-1	MDCDB-2	MDCDB-3	MDCDB-4
Enclosure				
Cabinet material	PC+ABS			
Anti-UV	Yes			
Foreign body protection level	IP65			
Collision protection level	IK10			
Dimensions (W*H*D)	Customized			
DC input port	PG09, 2.5 to 4mm ²			
DC output port	PG09, 2.5 to 4mm ²			
AC input port	PG25, 2.5 to 6mm ²	PG25, 2.5 to 10mm ²	PG25, 2.5 to 6mm ²	PG25, 2.5 to 10mm ²
AC output port	PG25, 2.5 to 6mm ²	PG25, 2.5 to 10mm ²	PG25, 2.5 to 6mm ²	PG25, 2.5 to 10mm ²
DC isolated switch				
Rated insulation voltage	600V	600V	1000V	1000V
Rated current	32A			
Classification	DC-PV1/DC-PV2			
Executive Standard	IEC/EN 60947-3, UL508I			
Certification	CE, TUV, SAA, CB			
DC surge protection				
Maximum working voltage	1000V			
Maximum discharge current	40kA			
Executive Standard	EN 50539-11 Type 2			
Certification	CE, TUV, UL			
DC fuse				
Rated working voltage	1000 V			
Rated current	15 to 32A(Optional)			
Dimensions (W*H*D)	Φ10 * 38mm			
Executive Standard	UL, CE, CB			
AC surge protection				
Rated voltage	230V AC	230V AC	400V AC	400V AC
Maximum discharge current	40kA			
Executive Standard	IEC/EN 61643-11			
Certification	CE			
AC circuit breaker				
Circuit breaker type	1P/2P	1P/2P	3P/4P	3P/4P
Rated current	16A	32A	20A	20A
Rated voltage	220/230/240V AC	220/230/240V AC	380/400/415V AC	380/400/415V AC
Rated frequency	50/60Hz			
Environmental parameters				
Operating temperature	-20°C to +60°C			
Humidity	99%			
Altitude	2000m (2000m Above derating)			
Installation method	Wall-mounted installation			

Diagram

