

Believe Solar Energy , Believe **HAMAK**[®]

PV Combiner Box Series - DC / DJ / Meter / Complex.

- ✓ Variety spec for option.
- ✓ Quality designation.
- ✓ Easy installation.

HAMAK[®]
DC Combi-Switch



✓ Industrial standards PV components and specific design – Safe guarantee

- Assembly by PCB/FR4 with waterproof coating, giving well protection in moisture proof.
- Built-in 8/20 μ Sec 20kA surge waveform of SPD to prevent the destruction caused by lightning wave.
- Fuse holders specifically designed for PV & DC applications.
- Circuit protection devices and DC disconnect switch meet industrial standards.
- Multi-circuit DC switch protection:
 1. Unique external rotary disconnect switch, cut all strings off by one switch.
 2. Internal fuse holders allow to cut off by each string.

✓ Salt and rust resist on cover, easy installation and maintenance.

- Outdoor cabinet, used in SUS304 stainless or aluminum, with powder coating.
- Indoor cabinet, used in SS41 galvanized iron, saving space.
- Detachable backrest, quick installation and maintenance.

✓ Safety certification

- Pass through CE certification.
- Meet UL1703, 2000Vdc insulation test.

✓ Outdoor cabinet, pass through IP65 dust and waterproof test

- DC terminal block adopt with high quality solar waterproof connector.
- AC output adopt with anti-UV and waterproof gland.
- Connector and rotary switch, used in IP65 dust and waterproof certified component.
- Outdoor cabinet pass through IP65 dust and waterproof test, door trench plus foam for durable waterproof design.



PV Combiner Box - DC

Cabinet design in unmatched quality | HA-DC

- Suitable for utility-scale PV power plant.
- Comply with NEC Requirements.
- Electric Strength 3000Vdc & Insulation resistance test.
- Built-in touch-safe fuse holders and SPD with visual fault indicator.
- Easy for maintenance and inspection.
- IP65 stainless lockable enclosures w/ powder-coated.



Industrial / Commercial Applications.

Style	HA-DC				
Spec	0402-1015	0602-1015	0601-1015	1001-1015	1601-1015
No. of input/output	4/2	6/2	6/1	10/1	16/1
Input connection	MC4 Compatible		4mm ² ~14mm ²		
Output connection	1.25mm ² ~14mm ²		100mm ² ~150mm ²		100mm ² ~150mm ² × 2
Fuse	15A / 1000Vdc				
SPD	8/20 μ sec 20kA				
SPD fault Indicator	Moulded Case Indicator				
Max output current	40A / per string	50A / per string	100A	160A	250A
Max input voltage	1000Vdc				
Box material	Stainless steels (SUS304) w/ powder painting.				
Protection level	IP65				
Dimensions(W×H×D)	417×343×161mm		530×480×165mm	600×750×175mm	750×750×175mm
N.W.	8.5kg		26kg	26.9kg	30.3kg
Certification	CE				
Remark	Comply with UL1703 3000Vdc insulation resistance test				

- Fuses rating can be changed upon request.
- All specifications are subject to change without prior notice. Please contact with us for updated information.

PV Combiner Box - DC

Cabinet design in unmatched quality | HA-DC/HA-DJ

- Comply with NEC Requirements.
- Built-in SPD with visual fault indicator.
- Touch-safe Fuse Holders for string inspection.
- Positive and negative terminals are adequately separated.
- IP65 stainless/ aluminum lockable enclosures w/ powder-coated.
- External disconnecting switch.



Commercial / Residential Applications.

Style	HA-DJ	HA-DC				
Spec	0401-1003	0201-0615-A	0201-1015-A	0202-0615	0202-1015	0606-1015
No.of input/output	4/1	2/1		2/2		6/6
Connection	MC4 Compatible			1.25mm ² ~14mm ²		MC4 Compatible
Fuse	3A /1000Vdc	15A / 600Vdc	15A / 1000Vdc	15A / 600Vdc	15A / 1000Vdc	
SPD	N/A	8/20 μ sec 20kA				
SPD fault Indicator	N/A	External LED Indicator		Moulded Case Indicator		N/A
Max output current	N/A	32A	40A	30A / per string	16A / per string	
Max input voltage	1000Vdc	600Vdc	1000Vdc	600Vdc	1000Vdc	
Box material	Aluminium enclosures w/ powder painting			Stainless steels (SUS304) w/ powder painting		
Protection level	IP65					
Dimensions(W×H×D)	289×216×100mm	300×215×100mm		228×428×190mm		417×343×161mm
N.W.	2kg			6kg		8.5kg
Certification	CE					
Remark	1000V insulation test	Comply with UL1703 3000Vdc insulation resistance test				

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PV Combiner Box - DC Switch

Cabinet design in unmatched quality | HA-DS

- Compact size, saving installation space.
- IP65 rating for waterproof protection.
- Aluminum case w/painted for the harshest environmental conditions.
- Wall-mounted, easy for installation and inspection.
- External rotary switch, cut all strings off by one switch.
- High quality MC4 compatible connector.



Style		HA-DS
Spec		0202-1040
No.of input/output		2/2
Connection		MC4 Compatible Connector
Related voltage		1000Vdc
Related current		40A
Durability	Mechanical life	1700 times
	Electrical life	300 times
Box material		Aluminum w/painted
Protection level		Meets IP65 Rating
Dimensions(WxHxD)		300×215×100mm
N.W.		2Kg
Remark		Meets RoHS standards

Weather Sensors Control Box

Cabinet design in unmatched quality | HA-DM

- RS-485 communication.
- Address ID & baud rate programmable.
- Integrated pyranometer and temperature sensor.
- Supporting AC/DC 100-240V power supply.
- IP65 stainless lockable enclosures w/ powder-coated.
- Easy installation and maintenance.
- Dimension(WxHxD):183x385 x190mm.



HAMAK[®] Solar

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