

Custom-made  
DC & AC  
Power  
Distribution  
Solutions



Quality Power Solutions Backed By Real World  
Engineering Experience



## DC & AC Power Distribution

Distribution panels are a basic component of any DC or AC power system. At Helios, we provide a complete range of configurations and options which can be customised when off-the-shelf products do not meet your specifications.

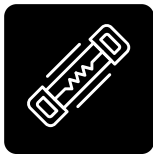


- Fuse or breaker protected
- Rack Mount mounting
- 12V, 24V, 48V, 110V & 220VDC Distribution
- 110VAC & 230VAC Distribution
- Optional auxiliary alarm relays
- Dual & single bus distribution
- Optional remote monitoring via TCP/IP
- Special terminals & connectors

## DC & AC Power Distribution Configurations



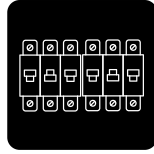
AC-DC  
Power  
Supply



Fuse-  
protected  
Distribution



Meter



AC & DC  
Distribution  
Breakers



DC-DC  
Converter



Surge  
Protector



Remote  
Monitoring  
via TCP/IP



Special  
Terminations

## DC & AC Rack Mount Power Distribution Examples



AMP-K6053 Custom Made MIL-SPEC Multi Voltage DC Power Supply with distribution

- 230VAC 50Hz Input voltage
- Handles on the front of the panel to aid removal
- 48V, 24V, 12V & 5V distribution output voltages
- 12 fused DC distribution outputs with current limiting
- LED indications on front panel
- RJ45 Ethernet port for monitoring
- LEMO connectors



AMP-K6053

### Dual bus front access industrial DC Distribution Panel

- Operates with 12V, 24V, or 48V mixed DC voltage for each bus
- 8 hydraulic-magnetic breakers outputs with industrial Anderson connectors
- Dual bus , 4 output per bus / 150A per bus





AMP-K5913

### DC UPS with front distribution and remote monitoring

- 230VAC 50Hz Input voltage
- Handles on the front of the panel to aid removal
- N+1 redundancy power supplies
- 48V distribution output voltages
- 4 position breaker protected DC distribution and 1 battery breaker
- Remote monitoring for individual output channel
- Screw/plug-in connectors



### N+1 250W DC Power Supply with front distribution

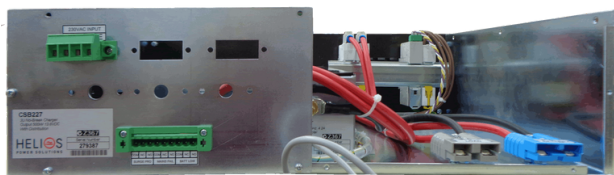
- 230VAC 50Hz Input voltage
- Handles on the front of the panel to aid removal
- N+1 redundancy hot/swappable DC power supplies
- 12V, 24V or 48V distribution output voltages
- 4 position breaker protected DC distribution
- Remote monitoring of battery and mains parameters
- Screw/plug-in connectors



CSB227

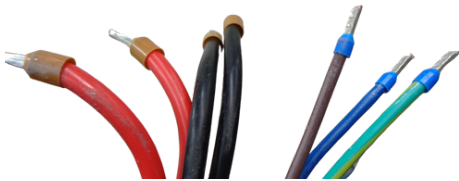
### 500W DC UPS with front distribution and protection breakers

- 230VAC 50Hz Input voltage
- Handles on the front of the panel to aid removal
- 3U, 19" Rack Mount
- Mains fail, battery low and surge protection alarms on voltage free contacts
- Phoenix terminals for AC input
- 50A industrial Anderson connectors for battery and load on the back of the rack
- 9-way Phoenix connectors for alarm connections on the back of the rack





CSB508



### 230VAC Distribution with Digital Meter

- 48V 25A 2P input MCB
- 6A 2P 230VAC inverter output MCB
- 6x6A 2P 230VAC load MCB's
- AC Power meter
- Fly leads to connect to the inverter



### Dual output DC Power Supply with front panel fused DC Distribution

- 12V & 48V output DC power system
- Front panel dual bus Fused distribution
- 6x10A 12V channels
- 6x15A 48V Channels
- Screw terminals on the back of the rack
- IEC socket for mains connection on the back of the rack
- On/off switch on front panel



AMP-K6429-24/12-LEMO



### Dual output DC Power Supply with 24 output channels and remote monitoring and control

- 12V & 24V output DC power system
- 24 output channels with LEMO connectors
- Voltage of each output can be disabled locally using the one/off switch on the front panel
- LED indicators for each channel
- Voltage of each bus is fully monitorable and controllable via TCP/IP
- IEC socket for mains connection on the front panel
- Reset factory defaults button on front panel



## DC Distribution Racks are fully customisable components of our power systems

Distribution panels are usually assembled into cabinets when they are part of a more comprehensive solution requiring high power levels and other power conversion and control components.

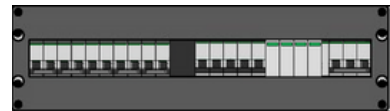
Check out some examples below:



CAB834

### 2X16kW Battery Charger 400VAC/110VDC

#### 3U Distribution Panel:



- 5x20A 2P Rectifiers DC output MCBs
- 5x16A 1P AC Input MCBs
- 1x3phase Surge protection
- 1x40A 3P Mains input with aux contacts

#### 12U Distribution Panel:



- 1x250A load MCCBs
- 1x250A secondary input MCCB
- 1x250A battery MCCB

DC Distribution Racks are fully customisable component of our power systems

3U Distribution Panel:

- 1x125A 2P Battery string isolator with aux
- 1x100 2P Load bank MCB
- 1x125A 2P load output MCB
- 1x6A 1P 230VAC cabinet light MCB
- 1x6A 1P 230VAC roof fan MCB
- 1x3Phase surge protection
- 1x63A 3P 400VAC Mains input MCB



CAB966

47U UPS with DC & AC Distribution, Battery Monitoring System, DC/AC Inverters and 420Ah Battery Bank

# Get in touch with our team

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