

MCB POWER-SPIN

Custom AC/DC Power Supply



MCB AC/DC Power-Spin 8kW

MCB Electronics has designed and developed a versatile comprehensive customizable AC input DC output power supply: Power-Spin.

An AC-DC power supply is a power electronic converting equipment which can convert alternating current (AC) into direct current (DC) with variable output voltage and current. The input and output electrical parameter range differs with equipment model, please refer to specific product data sheet for detailed product characteristics.

MCB Power-Spin fits a wide array of applications such as powering:

- UAV and Wind Tunnels test stands
- special Household Appliances
- particular automotive components
- batteries for testing purpose

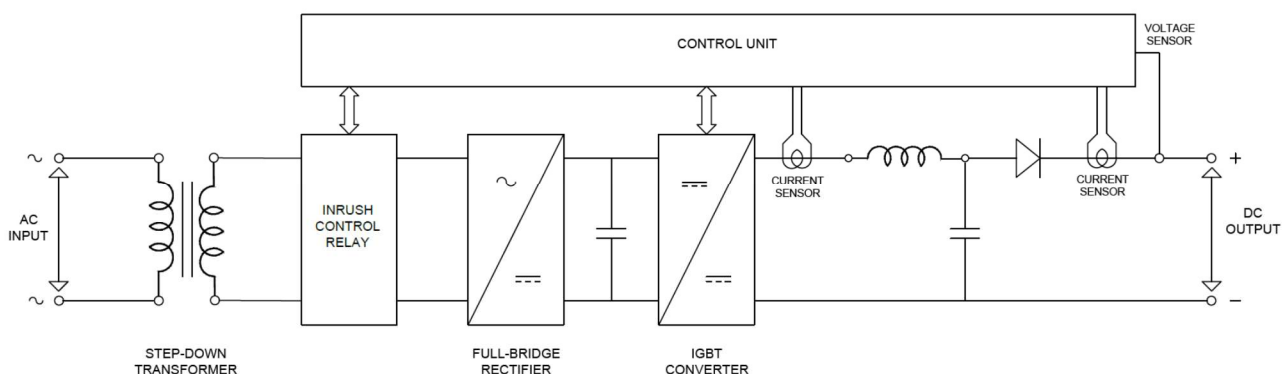
MCB Power-Spin can support in input any worldwide AC mains electricity according to the required specifications provided by the customer:

- Single-Phase (120Vac 50/60Hz - 230/240Vac 50/60Hz)
- Two-Phase (2 x 120Vac 50/60Hz)
- Three-Phase (3 x 208Vac 50/60Hz - 3 x 400Vac 50/60Hz - 3 x 480Vac 50/60Hz - 3 x 600Vac 50/60Hz)

Upon express request, MCB put in place the option to equip the Power-Spin with an external device capable to automatically detect the local AC mains electricity and accordingly set up the unit in output without any human interaction.

ARCHITECTURE and PRINCIPLES

Power-Spin is based on the concept of modularity; high powers can be reached through the parallelism of multiple units. For example, below is the electrical schematic of a single module inside the AC/DC power supply capable of supplying 4KW of DC power.



Our standard current power offering summarised below, can easily be tailored on the specific variable current and voltage ranges required from the customer.

Part Number	DC Output			Mechanical	Dimensions		
	Power [kW]	Voltage [Vdc]	Current [A]		W[mm]	D[mm]	H[mm]
PS-1-V25-A40	1	1 - 25	1 - 40	Rack 19"	420	540*	133 (3U)
PS-2-V50-A40	2	1 - 50	1 - 40	Rack 19"	420	540*	133 (3U)
PS-5-V125-A40	5	1 - 125	1 - 40	Rack 19"	420	540*	178 (4U)
PS-8-V65-A120	8	1 - 65	1 - 120	Mini Tower	600	550	860**
PS-20-V100-A200	20	1 - 100	1 - 200	Mini Tower	600	600	1380***
PS-40-V200-A200	40	1 - 200	1 - 200	Maxi Tower	800	800	2000****
PS-75-V150-A500	75	1 - 150	1 - 500	Maxi Tower	1000	800	2000****
PS-200-V400-A500	200	1 - 400	1 - 500	Maxi Tower	2000	800	2200****

* inclusive of 40mm handles

** inclusive of 90mm wheels

*** inclusive of 180mm wheels

**** inclusive of 200mm bases

CONTROLS

Power-Spin is equipped with a control panel on its front consisting in a LCD display 4 x 40 characters and 5 command buttons along with a ON/OFF power key.



Beside the local control through front panel, the regulation of current and voltage can be carried out even remotely via **RS232** and **Ethernet** ports empowered by **SCPI** communication protocol.

<https://mcbelectronics.it/products/scpi-power-sources>

MCB Power-Spin, upon specific request, can be limited in power narrowing the voltage and current ranges.

MCB Power-Spin, upon specific request, can be equipped and integrated with battery charging mode.