

# POWER SWITCH MGP1+

**DC OUTPUT :**  
600V Max – 5000A Max

## Description :

- Supply voltage : 400 VAC three-phase +/- 10% 50-60Hz without neutral + PE.
- Ambient temperature : Max. 40°C, 50°C on request..
- Protection against overloads and short-circuits.
- Cooling: Controlled forced ventilation.
- Relative humidity (condensation-free): 85%.
- Efficiency: 86% to 92% depending on model.
- Power factor: cos phi > 0.98.
- Ripple: < 2% over the entire range of use.
- Control: 0 to 100% voltage and current.
- Precision: < 0.5% over 8 hours.
- Linearity, stability: < 0.5% over 8 hours.



## Voltage / Current Ratings :

MGP1+ ( 100 KW )	
Power	100 KW
Weight	310 Kg
Volts	Amps
15	6000
20	5000
30	3000
40	2500
50	2000
60	1500
80	1250
100	1000
200	500
300	300
400	250
500	200
600	150

Voltage rating greater than 100 V DC : on request.

## Related Human Machine Interface



### CONTROL PANEL

- U and I adjustable using two potentiometers
- V/C manual preset with display



### TOUCHSCREEN CONTROL PANEL

- Built-in meter
- Built-in timer
- Built-in U or I gradient
- History graphs
- Save graphs to USB drive



# Current Rectifier POWERSWITCH MGP1+

**MGP1+ : 100KW**  
Weight : 310 Kg

## AC INPUT

Voltage	400Vac TRI +/- 10% without neutral + PE
Frequency	47 / 63 Hz
Power Factor	> 0,98

## DC Output

Power	100 kW
Voltage	0 to 600V
Current	0 to 5000 A
Mode of operation	CV/CC
Ripple	< 2% of the normal gauge
Accuracy (Voltage and current)	< 0,5% of the normal gauge
Stability	< 0,5% of the normal gauge
Linearity	< 0,5% of the normal gauge
Distorsion	< 0,5%

## Environnement

Temperature	0 to +40°C ( 55°C derating )
Relative Humidity	85% without condensation
Cooling	Controlled air cooling



## Customisation :

### Digital Control :

- RS 485 2 fils / Ethernet / Wifi.
- Profibus DP
- Standard : Schneider/ Siemens/Wago/Phoenix...

### Analog control :

- U and I Inputs/ Outputs.
- 0-10V or 4-20 mA isolated 1500 Vrms.

A-h T.J.P Counter

Polarity Inverter

Tension or Intensity Ramp

Timer



Dimensions : Width : 600 mm | Height : 1850 mm | Depth : 600 mm

