

Plasma Power Driver 4kW/10kVA



Features

- Adjustable voltage from 2kV_p to 10kV_p
- Adjustable power from 400W to 4kW
- Simultaneous power and voltage control
- **Modbus** monitoring and control, remote on/off and dimming
- Wireless diagnostic **Bluetooth** monitor (IOS and Android)
- Very compact, low weight
- Very wide input voltage range
- High efficiency, High PF and Low input current THD

Applications

- Cold Plasma generators
- Ozone generators
- Corona treatment

Ordering information

Description	Part number	Packaging
Plasma Power Driver	*****	1pcs/box

Input

Input voltage	400/440/480 V _{ac} ± 10% 2PH + PE
Input current	12 A max.
Input frequency	50/60Hz ± 3Hz
Inrush current	7.5 A max. at 528 Vac
Power Factor	> 0.98 (at 1-4kW) @ multiple of 3 drivers distributed over 3 phases
Current THD	< 5% typ.
Standby power	< 5W

* If Input voltage is below 360V the output power will be dimmed to attempt to continue operation and keep the input current below 42A. Below 165V the driver will switch off.

Output

Output real power	400W - 4kW
Output apparent power	10 kVA max.
Output voltage	2kV _p - 10kV _p
Output current	1.5 A _{rms} max.
Power accuracy	±5%
Frequency	30 - 70kHz (sinusoidal)
Burst mode duty cycle	35 - 100%
Load capacity	< 600 pF

Miscellaneous

Efficiency	> 92% at full load
Protections	overload over-voltage over-current short circuit temperature
Cooling	forced air cooling
Operating conditions	0°C - 40°C / 32°F to 104°F 25 - 95% non-condensing
Storage conditions	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
Approvals	CE / cUL / FCC47 part18 pending
Weight	Driver: 7,3kg / 16.1 lb Transformer: 12kg / 26.5 lb
Dimensions driver	395 x 244 x 87 mm 15.6 x 9.61 x 3.43 inch
Dimensions transformer	284 x 244 x 192 mm 11.2 x 9.61 x 7.56 inch
Connector types	Input: Phoenix PC 5/ 3-G-7,62 Output: HV bus isolator output Modbus control: Modular Jack RJ45

Specifications subject to change without notice RH20231127