

FSU 341

Solid State Power Supply for UV lamps Step less adjustable from 4,500 to 34,000 W

These fully electronic power supplies are designed optimal to drive uv-lamps in the various fields of industry (e.g. printing, curing, water treatment), which use uv-lamps up to 34,000 watts.

Special Advantages:

- universal use in the nominal power class of **15,000 to 34,000 W**, this means one power supply drives different types of uv-lamps in the above named power class
- typical lamp arc length will be 90 to 200 cm/ 35 to 79 inches and more
- step less and quick adjusting of uv-lamp power e.g. for step less adjusting of uv-power according to the speed of the machine or to adjust uv-power according to lamp ageing
- constant wattage uv-lamp output according to power settings
- no influence of mains voltage fluctuation
- wide range of main voltage from 400 to 480V \pm 6%, 50 and 60Hz
- controlled by DC 0...10V analogue and DC 24V digital
- several output signals for status and failure indication with dry contacts
- output is protected against ground faults, overload and short circuits
- 3-phase symmetric mains connection
- easy to install and less wiring needed
- no phase angle correction and no extern igniter needed
- less heavy and in many cases smaller than a conventional power supply
- in accordance to EN 50178 and other European and world wide standards (IEC)



Main technical data

| FSU 341 | |
|------------------------------------|--|
| Output power | about 4,500 – 34,000 W* step less adjustable |
| Mains voltage | 376 to 509 V (Between 360 to 528V possible but with reduced lamp voltage) |
| Mains current (at 34kW) | 3 x 60A to 3 x 45A (PF = 0.9) |
| Mains frequency | 50 to 60 Hz |
| Mains connection | L1, L2, L3, PE |
| Typical arc length | Approx. 35" to 79" (90 to 200 cm) longer arc length on request |
| Lamp operating voltage | 1,100 to 1,360 V nominal * |
| Lamp operating current | 3 to 26 A |
| Duty frequency | about 73 Hz square wave |
| Igniting voltage | about 3.5 kV |
| Max. distance FSU to lamp | 50m with mercury lamps ~20m with doped lamps |
| Power loss | approx. 3 to 4 % |
| Dimensions | approx. 458 x 460 x 493 mm |
| Weight | ~ 77 kg |
| Cooling of the unit | internal |
| analogous power control input: | DC 1,5...10V for lamp power ~15 to 100% |
| analogous output for lamp voltage: | DC 0...10V according to AC 0...1250 V |
| analogous output for lamp current: | DC 0...10V according to AC 0...25 A |
| EMC | acc. EN 55011, group I, class A (industrial areas) |

* to reach 30,000 W a lamp operating voltage of min. 1,250 V is necessary,
to reach 34,000 W a lamp operating voltage of min. 1,360 V is necessary.