

FSU 340

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 340	
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...2500 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.