HLP 18-500

Solid State Power Supply for uv lamps

Step less adjustable from 400 to 1800 W

These fully electronic high frequency power supplies are designed to drive uv-lamps in the various fields of industry, which use uv-lamps from about 1000 to 1800 W nominal power.

Special Advantages:

- universal use in the **nominal** power class of **1,000 to 1800 W**, this means 1 power supply drives different types of uv-lamps in this power class
- step less and quick adjusting of uv-lamp power, e.g. for step less adjusting of uv-power according to the speed of a printing machine; or with discontinuing processes; or to adjust uv-power according to lamp ageing.
- constant wattage uv-lamp output according to power settings
- controlled by PWM signal, fixed frequency between 1 kHz and 5 kHz.
- no influence of main voltage fluctuation
- wide range of main voltages from 90 to 264 V, 50 and 60Hz
- 1-phase mains connection (L1-N-PE) with PFC
- output is protected against ground faults, overload and short circuits, additionally open circuit causes no problems
- easy to install and less wiring needed
- no phase angle correction and no extern ignitor needed
- less heavy and in many cases smaller than a conventional power supply
- CE- and UL-sign

Main Technical Data:

HLP 18-500	
Output power dimming	Power is step less controlled between ~ 400 – 1800 W
Mains voltage	90 to 264 V
Mains current (at 1.8 kW @ 120V)	approx. 1x 17 A max. (PF = 0.98)
Mains frequency	50 and 60 Hz
Mains connection	L1, N, PE
THD (i)	< 5% typ.
Lamp operating voltage	150 to 500 V (nominal) *
Lamp operating current	up to max. 8.5 A continuous
Lamp warm up current	max. 10 A
Lamp arc length	~ 15 to 70cm (~ 5 to 28”) Hg lamps ~ 15 to 60cm (~ 5 to 24”) doped lamps
Duty frequency	~ 50 to 250 kHz
Ignition voltage	~ 1.6 kV
Power loss	approx. 6 %
Ambient temperature range	0 to 40° C
Dimensions	approx. 330 x 210 x 65 mm plus heat sink
Weight	~ 3.8 kg
Cooling of the unit	Air cooling, by extended fan with heat sink unit
Analogous power control input	PWM signal, fixed frequency between 1 kHz and 5 kHz. for lamp power approx. 25 - 100%

*To reach 1,800 W, a minimum actually lamp voltage of 210 V is necessary!