

# BLP 75-8kW

## Solid State Power Supply for UV lamps

### Step less adjustable from 800 to 8,000 W

These fully electronic power supply units are basing on the well known BLP 59-S, have the same housing, footprint and control. They are designed to drive uv-lamps in the various fields of industry, e.g. printing, CD/DVD production and any application which uses uv-lamps from about 4,000 to 8,000 W nominal power.

#### Special Advantages:

- Universal use in the nominal power class of **4,000 to 8,000 W**, this means ONE power supply drives different types of uv-lamps in the above named power class
- Step less and quick adjustment of uv-lamp power, e.g. for step less adjustment of uv-power relative to the speed of a printing machine; or with interrupted processes (e.g. quick power pulsing); or to adjust uv-power relative to lamp ageing
- To be placed in a cabinet or similar cooled housings, with max. temperature inside 35°C (BLP75-8kW has protection degree IP 20)
- Constant wattage uv-lamp output according to power settings
- Not influenced by mains voltage fluctuation
- Wide range of 3-phase mains voltages from 376 to 509 V, 50 and 60 Hz, including missing phase detection
- Controlled by DC 0...10 V
- 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 external ignitor needed
- Lighter and in many cases smaller as a conventional power supply
- In accordance to EN 50178 / VDE 0160 and other European and world wide standards (IEC)
- CE sign, EMC according to EN 55011, group I, class A (industrial areas)



#### Main technical data

BLP 75-8kW	
Output power	approx. 800 – <b>8,000 Watt</b> , step less adjustable
Mains voltage	376 to 509 V
Mains current (at 8000W)	3x 17A to 3x 13A (PF ≥ 0,8)
Mains frequency	50 to 60 Hz
Mains connection	L1, L2, L3, PE
Typical lamp arc length	~ 15 to 70 cm (6" to 27") Hg lamps ~ 15 to 60 cm (6" to 24"), doped lamps
Lamp operating voltage	100 to 450 V (nominal value)
Lamp operating current	approx. 1.8 to 18 A
Duty frequency	approx. 255 Hz
Power loss	6 %
Ambient temperature	0° to 35°C (32 to 95 F)
Dimensions (WxHxL)	approx. 125 x 270 x 400 mm
Weight	15 kg
Cooling of the unit	external, with 2 mounted fans (internal supplied)
Analogues power control input DC 0...10 V	DC 0-0,5 V = OFF; DC 1-10 V = ON and lamp power 10-100%
Analogues output for lamp voltage DC 0...10V	DC 0-8 V = AC 0-500 V, DC 8.5-10 V = lamp is OFF