

## eb60

### Solid State Power Supply for UV lamps | Step less adjustable from 600 to 6,000 W

These fully electronic power supply units are the very latest development in EBS technology and are based on the well known and reliable BLP-platform. They are half the size of the BLP and in addition to the 65% reduction in power loss, offer many more opportunities for control and machine integration. They are designed to power UV lamps over a wide range of industries, e.g. label printing »narrow web«, container printing, CD/DVD printing, furniture production and any application which uses UV lamps from about 3,500 to 6,000 W nominal power.

#### Special Advantages:

- Universal use in the nominal power class of **3,500 to 6,000 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 40°C (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, RS 232
- Status and fault monitoring by contact, analogous output and integrated LED's
- 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
- Lighter and smaller as most other power supplies of this power
- In accordance to EN 50178 / VDE 0160 and other EN and IEC standards
- CE sign, EMC according to EN 55011, group I, class A (industrial areas)



#### Main technical data:

eb60	
Output power	approx. 600 – 6,000 Watt, step less adjustable
Mains voltage	376 to 509 V
Mains current	9,6 A at $U_{mains} = 400V$ / $P_{out} = 6000W$ ( $PF > 0,93$ )
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. 1.5 to 15 A
Duty frequency	approx. 255 Hz
Power efficiency ( $\eta$ )	97% at $U_{mains} = 400V$ , $U_{lamp} = 400V$ and $I_{lamp} = 15A$
Ambient temperature	0° to 40°C (32 to 104 F)
Dimensions (WxHxL)	65 x 225 x 300 mm (without straps) / 65 x 225 x 380 mm (with straps)
Weight	5,8 kg
Cooling of the unit	with 2 internal fans (internal supplied)
Analog power control input DC 0...10V	DC 0 - 0.5 V = OFF; DC 1 – 10 V = ON and lamp power 10-100%
Analog output for lamp voltage DC 0...10V	DC 0 – 8 V = AC 0 - 500V, DC 8.5 - 10V = lamp is OFF