ssr engineering gmbh

ssr **Power Supply Units**

- ssr BLP 59 - 6 kW
- ssr PSU 3 kW
- ssr PSU 6 kW
- ssr SLP 80 - 8 kW

coating / finishing
surface treatment
bonding / needle bonding
IMD high quality UV curing
sterilization

ssr engineering is one of the worldwide leading companies in innovative, high performance and reliable special UV systems. Due to our long years of experience, especially in high-tech applications, our UV systems meet all expectations in proccessing and quality.
ssr engineering Power Supply Units **BLP / PSU / SLP** are designed for virtually all different kind of industrial applications.

Professional high performance UV systems

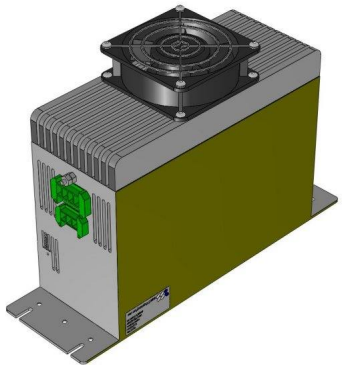
Power supply units are essential for the operation of UV systems. They supply the high voltage ignition pulse and transforming the net supply voltage into the right specification to operate the uv lamps.

The characteristic of the power supply unit is important for the ignition procedure and the operation mode which influences the useful lifetime of the lamp.

The electrical power of the lamp ballast should include 20-30% backup to ensure a safe UV process. In combination with discontinuously processes, a wide span of power setting can help to safe energy costs during standby mode and to extend the useful lifetime of the uv lamps.

The interface for operation and safety monitoring is most important for integration into UV machinery equipment.

The **BLP 59-S** is a full electronic, controllable AC power supply for ssr uv-lamps from about 3000 to 6000 Watts nominal power and is designed for industrial purposes. It is tuned especially to operate with mercury discharge uv-lamps. The lamps are driven with square-wave current, through this the obscuring period during the zero-axis crossing of current, occurring at sinus-shaped supply (standard power supply), is dropped.



ssr BLP 59 – 6 kW

The **ssr PSU 3 kW** power supply unit is a high frequency electronic power supply unit to ignite and operate medium pressure gas discharge lamps up to an operation power of 3000 Watts, providing a dimming capability. The lamp driver is power controlled. The device has a single phase 200 V mains input (L1-N).

ssr PSU 3 kW

The ssr **PSU 6 kW** power supply unit is a high frequency electronic power supply unit to ignite and operate medium pressure gas discharge lamps at an operation power up to 6000 Watts, providing a dimming capability. The lamp driver is power controlled. The device has a double, single phase mains input 200 V (L1-L2-N). The mains input can be used as a single phase mains input. The power supply unit status is indicated by four LEDs.

ssr PSU 6 kW

The **ssr SLP 80** is a high efficient power supply unit for operating uv medium pressure lamps with an electrical power up to 8000 Watts. The cutting-edge-technology ensures a gentel ignition of the lamps and a very high efficiency. Its compact design and the low weight are unique in uv-technology.

ssr SLP 80 – 8 kW

technical data

	ssr BLP 59	ssr PSU 3 kW	ssr PSU 6 kW	ssr SLP 80
electrical power [W]	6kW spec. P	3kW spec. P	6kW spec. P	8kW spec. P
lamp voltage	500 V	300 – 550 V	300 – 550 V	- 550 V
lamp current	≤ 15 A	≤ 10 A	≤ 20 A	≤ 25 A
standby min.	≤ 500 W	800 W	1000 W	≤ 500 W
input supply	3~ 400 V P supply	1/2~ 200 V P supply	1/2~ 200 V P supply	3~ 400 V P supply
tolerance	376 – 509 V AC	187 – 305 V AC	187 – 305 V AC	376 – 509 V AC
frequency	50 - 60 Hz	48 – 63 Hz	48 – 63 Hz	50 – 60 Hz
efficiency	ca. 92 %	ca. 98 %	ca. 98 %	ca. 98 %
measures [mm³]	400 x 125 x 270	334 x 137 x 64	400 x 250 x 160	400 x 125 x 180
weight	14 kg	4 kg	14 kg	8 kg
product features	analogue	analogue, PWM		analogue, BLP–SLP
cooling	internal	external	internal	
protection	T sensor			

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Product features:

net supply: shows the voltage and phase requirements to operate the system at nominal operation power

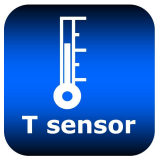
maximum power: shows the maximum electrical output power to operate UV lamps

analogue signal: lamp power control input signal
– analogue signal from 0 – 10 V representing lamp power setting from 0 – 100 %

PWM signal: lamp power control input signal
– PWM signal from 0 – 100 % representing lamp power setting from 0 – 100 %

internal cooling: the power supply unit is equipped with internal cooling supply – no external cooling installation required

external cooling: the power supply unit requires external cooling supply – air or water cooling could be used



temperature safety: the power supply unit is equipped with internal temperature protection – in case of insufficient cooling condition, the system will shut down automatically

BLP-SLP compatible solution: the new innovative ssr SLP 80 can easily exchange the BLP 59 – identical electrical and mechanical interface and more compact design ensure a simple **P´n`P**

Technology Made in Germany!