



The devices of the PHASER EVO series are very compact and efficient electronic power supplies for the operation of UV-Lamps (mercury vapor arc discharge lamps).

They have been developed with special attention to cost effectiveness and economical operation and are perfectly adapted for all applications of UV-Curing, UV-Disinfection, UV-Oxidation and other special tasks.

The well-arranged connection layout makes it very easy to control the lamp power with conventional analog signals (current or voltage) or potentiometer.

As an option, the PHASER EVO can be equipped with a free configurable field-bus interface, thus allowing for modern digitally-linked operation concepts with all common bus protocols.

Technical Specifications

| PHASER EVO Type | 5/450 | 6/450 | 7.5/450 | 9/450 | 12/xxxx | 18/xxxx | 24/xxxx | 32/xxxx | 36/xxxx | |
|---|---------------------------|-------|---------|-------|-----------------|---------|------------|-----------------|---------|--|
| Lamp power (max.) [kW] | 5 | 6 | 7.5 | 9 | 12 | 18 | 24 | 32 | 36 | |
| Lamp voltage [V] | 100 - 450 | | | | up to 2000 | | up to 3000 | | | |
| Lamp current (max.) [A] | 22 | | | | tailored | | | | | |
| Efficiency approx. [%] | 97 | | | | 95 | | | | | |
| Output frequency [Hz] | 50 | | | | 250 | | | | | |
| Ignition voltage [Vpk] | 4000 | | | | 6000 | | | | | |
| Pulse switching time [ms] | < 3 | | | | | | | | | |
| Size LxWxH [mm] | 480 x 180 x 80 | | | | 550 x 225 x 350 | | | 590 x 270 x 350 | | |
| Weight [kg] | 4 | | | | 25 | 37 | 45 | 50 | 55 | |
| Mains voltage [V] | 3 x 400 - 480, +6/-10% | | | | | | | | | |
| Mains frequency [Hz] | 48 - 62 | | | | | | | | | |
| cos(Phi) | > 0.95 | | | | | | | | | |
| Power line loading | symmetrically on 3 phases | | | | | | | | | |
| Mains connection | L1, L2, L3, PE | | | | | | | | | |
| Ambient temperature [°C] | 0 - 40 | | | | | | | | | |
| Other configurations and power ranges on request | | | | | | | | | | |

| Standards/EMC: | Standards/Safety: |
|----------------------------------|-------------------|
| EN 55011: 2009, Group 1, Class A | EN 50178:1998 |
| EN 61000-6-4: 2007 | |
| EN 61000-6-2: 2005 | |

Control Signals

| Terminal | In/Out | Description | Voltage against GND, max. Load |
|---------------------|---------|--|---|
| GND | | Signal ground | 0 V, max. +/- 50 V against PE |
| ENABLE | Input | Lamp ON/OFF | +5 ... +24 V, R _i = 1 kΩ |
| U _{Pcom} | Input | Lamp power command | Voltage mode: 0 - 10 V, R _i = 20 kΩ Current mode: 0 - 20 mA, R _i = 500 Ω |
| OPERATION/ FAULT | Contact | „Operation“ = closed „Fault“ = open | max. 0.3 A / 24 V |
| PE | | Protection earth, shield | max. 50 V |