

DST1000 Powerpack

Multiple lamp ballast rack for uv lamps and sensors



The **DST1000** rack system is specially designed for driving and controlling **low pressure and amalgam uv lamps** with lamp power in the range from **150W to 1000W**.

Its compact design and modular concept with up to 9 plugged lamp driver cards (different types may be mixed inside one rack) makes it easy to handle up to 36 lamps per rack and meet the customers requirements.

Special advantages

DST1000 can operate as **master** device - linked with a PLC, PC or any other superior control – or as a **slave** device (linked with other DST1000 via RS485). Also **stand-alone** mode without any external control is possible. There are also interfaces available for analog sensors like UV sensor, flow meter, pressure sensor, temperature etc. Digital inputs and outputs can be operated by the PLC. DST1000 maintains lamp and ballast data like preheat current, lamp current etc. Lamps can be switches on/off and dimmed separately. Lamps report their status, power and arc current by Ethernet (Modbus TCP) or RS485 Modbus RTU. As an option all Information is shown on a 5" color touch display. DST1000 can communicate with PLC or PC via Modbus TCP (LAN 100MBit). Programming and configuration can be done with any PC via a USB or Ethernet connection. All events are logged and stored in the internal control unit together with date and time from internal RTC (Real Time Clock).

Functions

- Configuring the ballasts cards for use with correct lamp parameters
- Configuring and communicating with sensors
- Controlling the lamps while running
- Logging the system running data
- Communicating externally with PLC or PC
- Monitoring and controlling UV output and other sensors
- Controlling the entire system running
- Controlling analog inputs
- Controlling digital inputs and outputs

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Available ballast cards

Ballast card	No of lamp channels	Max. Power per channel	Max. no of lamps per rack	UV lamps
DST-1x1000W	1	600-1000W	9	t.b.d.
DST-2x600W	2	350-600W	18	t.b.d.
DST-2x350W	2	300-360W	18	t.b.d.
DST-4x320W	4	150-330W	36	t.b.d.

Main technical data

Item	Data
Mains voltage	3x400VAC, 3 phase, no Neutral needed
Date and Time	Internal RTC, battery buffered
Digital inputs	8 x 24V
Digital outputs	8 x 24V /100mA
Analog inputs	4 x 0-10V/4-20mA 12Bit
Temperature Input	1 x PT100 (4 wire)
Display	5" Touchscreen, 800x480
Ambient temperature, storage / humidity	-5 to +70° C / max. 80%, not condensing
Ambient temperature, operating	5 to 45° C, not condensing
Dimensions (WxLxH)	Approx. 632 x 253 x 204 mm (same size as DS-C500-18)
Weight	~ 27 kg
Cooling of the unit	4 x PWM driven fans

Available interfaces

Interface	Type	Channels	Protocol
Ethernet	100MBit/s	1	Modbus TCP, HTTP Webserver
RS485	2 wire serial	1 (for Master / Slave mode)	Modbus RTU
USB 2.0	Serial device	1	Software update, Configuration data

Device types DST1000 Powerpack Standard

Device Article	Ballast card	No of lamp channels	Max. Power per channel	Max. no of lamps per rack
DST1000-9x1000	DST-1x1000W	9	600-1000W	9
DST1000-18x600	DST-2x600W	9	350-600W	18
DST1000-18x350	DST-2x350W	9	300-360W	18
DST1000-36x320	DST-4x320W	9	150-330W	36
DST1000-6x1000	DST-1x1000W	6	600-1000W	6
DST1000-12x600	DST-2x600W	6	350-600W	12
DST1000-12x350	DST-2x350W	6	300-360W	12
DST1000-24x320	DST-4x320W	6	150-330W	24

Standard version is without display.

Device types DST1000 Powerpack with display

Device Article	Ballast card	No of lamp channels	Max. Power per channel	Max. no of lamps per rack
DST1000-9x1000D	DST-1x1000W	9	600-1000W	9
DST1000-18x600D	DST-2x600W	9	350-600W	18
DST1000-18x350D	DST-2x350W	9	300-360W	18
DST1000-36x320D	DST-4x320W	9	150-330W	36
DST1000-6x1000D	DST-1x1000W	6	600-1000W	6
DST1000-12x600D	DST-2x600W	6	350-600W	12
DST1000-12x350D	DST-2x350W	6	300-360W	12
DST1000-24x320D	DST-4x320W	6	150-330W	24

Devices with integrated color TFT display with touchscreen