

Specification Sheet



JA2000 VPXi— UV Lamp head Power Supply



UV lamp Power supply designed to interface with the JA2000 series of lamp heads, offering variable power and system integration input and output facilities. Primary output is rated for a continuous maximum of 2kW and supplied in a rugged case suitable for industrial applications.

Control Interface - Touch Screen Control

- Display both Target and Actual Level.
- Easy set up of target lamp output between 30-100%.
- Lamp Run Hours.
- Configuration Menu adjustment of tolerance (for OK signal , pulse time and level).

Control Interface

- Remote Start (Positive Edge will start the lamp if estop and remote stop input closed).
- Remote Stop (Open for 300mS will stop the lamp – Note priority to stop over start). Must be made if not used.
- Remote Power level control (24Vdc closure - indicates power to be set remotely using input below).
- Remote Power control input (0-10Vdc = 30 – 100% output).
- Pulse mode active (Pulse for 300mS will cause output to increase or decrease too set level)
- Lamp OK VFC output indicates bulb is operating at set level.
- Lamp Head Overheat safety shutdown.



Jenton International Limited
9/10 Ardglen Industrial Estate,
Evingar Road, Whitchurch,
HAMPSHIRE RG28 7BB
UNITED KINGDOM

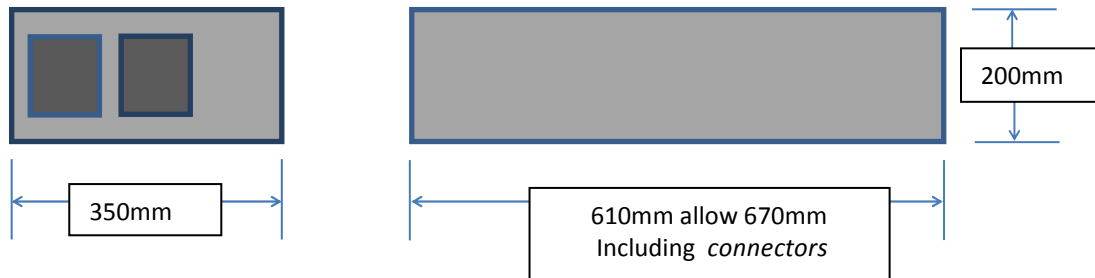
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Technical Specification.

Physical Layout



Note additional clearance is required for ventilation.

Electrical Supply

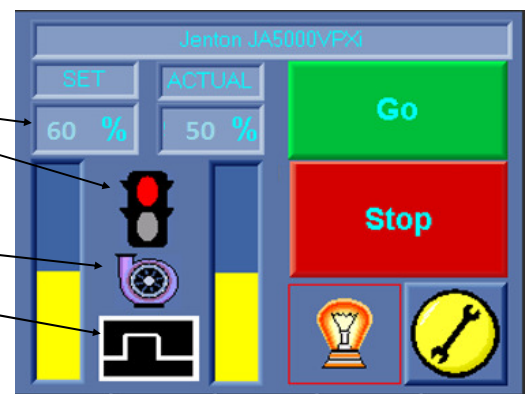
Voltage Supply	230Vac – 50Hz (L,N +E)
Phase Loading	10 Amps Max at 100% op
Termination	Supplied with IEC power lead.

Output

Lamp Power	Auto set to suit lamp either 1400 Watt or 2000 Watt
Max Lamp Power	2000 Watts
Fan Drive	24Vdc 2 Amps

Control Features.

- Set level between 30 and 100%
- Status indicates Green when Actual output level of bulb is within set tolerance.
- Indicates Fan Status (Appears when running).
- Pulse mode – Indicates that pulse mode has been activated.
- Actual Level .
- Bulb status – on or off – also pressing here will show lamp hours.
- Configuration Menu.



Product Ordering Codes.

Power Supply —JA2000VPXI-0000.

Recommended Lamp Heads

70mm 3627-0000 (1400 Watt max).

150mm 3718-0000 (2000 Watt max).

Other option available by request.

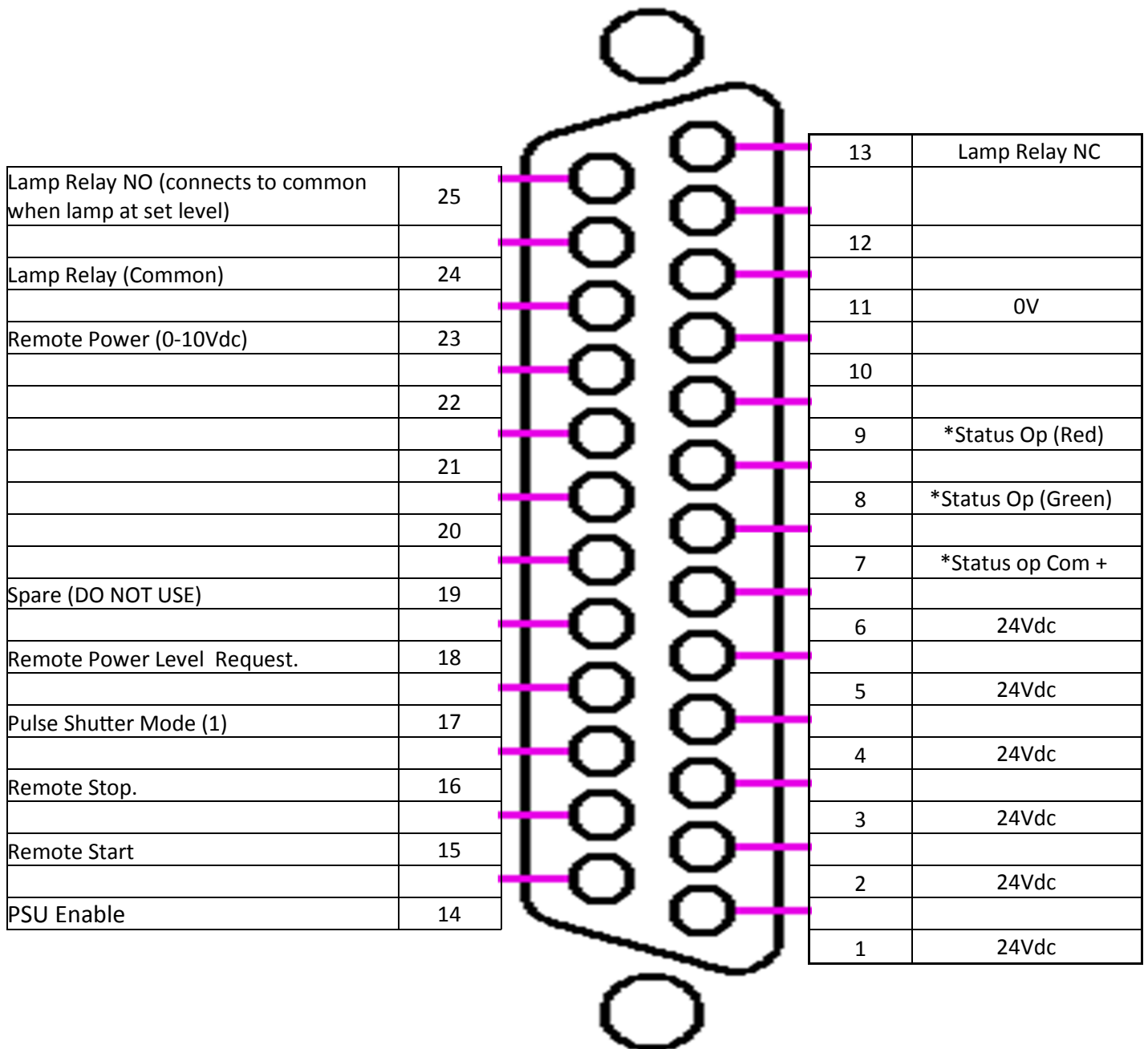


Jenton International Limited
9/10 Ardglan Industrial Estate,
Evingar Road, Whitechurch,
HAMPSHIRE RG28 7BB
UNITED KINGDOM

Tel: +44 (0)1256 892194

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Interface Connection Diagram.



Minimum connection— Interlock Enable link between 1 and 14 and Machine Stop—Link between 2 and 16

NOTE—system will not operate unless connections above are in place.

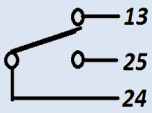
* Status Outputs are an optional Extra—check Rating Plate for inclusion.



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HAMPSHIRE RG28 7BB
UNITED KINGDOM

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Function	Terminals	Function and limits of operation.
Enable	1 and 14	Ideally should be connected via a chamber safety switch that will be opened in the event that the lamp enclosure area is accessed. Open circuit will isolate the power supplies internal components and prevent power reaching the bulb. SHOULD NOT BE USED AS A GENERAL STOP.
Remote start	2 and 15	Will be inhibited If Either Interlock Enable (above) OR Remote Stop (below) is open circuit. Will activate the Lamp when connected (Positive edge) AND will deactivate the bulb when open circuited (Negative Edge).
Remote Stop	3 and 16	Closed circuit will permit the unit to power the bulb if interlock Enable is closed first. If running , an Open circuit will cause the unit to switch the bulb off, and the display will show the time in seconds since this connection was broken. SHOULD NOT BE USED AS AN EMERGENCY STOP.
Pulse Shutter.	4 and 17	With the bulb running, connection will cause the output power level to run at the programed pulse level set in the settings screen. It will remain at that level whilst the input is active AND can be delayed once released (Open Circuit) for a number of seconds configured in the setting screen. Note Pulse mode cannot be activated unless the bulb has reached it's set level first.
Remote Power Request	5 and 18	May be permanently connected if required. Connection indicates that the remote power signal (see below) should be used to determine the Lamp power level. 'Start' —either remote as above or local touch screen .
Remote Power Level	23 (+V) 11(Sig GND)	0-10 Vdc signal – as representation of Power level of the lamp—Note 0V will operate the bulb at the minimum output level of 30% and 10 Vdc will operate the bulb at the 100% level.—Note the system will automatically recognise the lamp head type and adjust the maximum power output accordingly.
Bulb OK	13, 24 and 25 	Volt free contact—will operate/ connect pin 24 to 25 when the bulb is operating within the limits as set in the setting screen. Note—Pulse mode will not cause the contacts to open. Otherwise will connect 24 to 13.

NOTE terminals 1,2,3,4,5 and 6 are internally common connection 24Vdc.



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Evingar Road, Whitchurch,
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Optional Extra — Status Output.

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Status Outputs	7,8 and 9 	<p>If this option is fitted (check Serial Plate) then the power supply can communicate it's status as follows.</p> <table border="1"> <thead> <tr> <th>Operating status</th> <th>LED</th> <th>Diagnosis</th> <th>State</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Normal</td> <td>LED green continuously on</td> <td>Control input $\geq 1,0V/5,6mA$</td> <td>Desired power is reached (depending from control input)</td> </tr> <tr> <td>LED green slow blinking</td> <td>Control input $< 0,9V/5,5mA$</td> <td>TEP ready to start</td> </tr> <tr> <td rowspan="3">Warning</td> <td>LED orange continuously on</td> <td>Control input $\geq 1,0V/5,6mA$, but desired power not yet reached</td> <td>Lamp voltage too low, lamp current higher</td> </tr> <tr> <td>LED orange quick blinking</td> <td>Over temperature is threatening (heat sink temperature $>70^{\circ}C$, reset with $<60^{\circ}C$)</td> <td>TEP stays on</td> </tr> <tr> <td>LED red slow blinking</td> <td>Unsuccessful igniting,</td> <td>No output voltage waiting for next ignition</td> </tr> <tr> <td rowspan="4">Fault</td> <td>LED red/orange alternately quick blinking</td> <td>Mains voltage $<190V$ (but not $0V$)</td> <td>TEP 20-S internal switched off</td> </tr> <tr> <td>LED red/orange alternately slow blinking</td> <td>Over temperature (heat sink temperature $>80^{\circ}C$, reset with $<60^{\circ}C$)</td> <td>TEP 20-S internal switched off</td> </tr> <tr> <td>LED red slow blinking</td> <td>Output is open circuit $> 10s$, lamp not ignited</td> <td>TEP 20-S internal switched off, no lamp connected or lamp has not ignited</td> </tr> <tr> <td>LED red quick blinking</td> <td>short circuit in lamp circuit</td> <td>TEP 20-S internal switched off</td> </tr> </tbody> </table>	Operating status	LED	Diagnosis	State	Normal	LED green continuously on	Control input $\geq 1,0V/5,6mA$	Desired power is reached (depending from control input)	LED green slow blinking	Control input $< 0,9V/5,5mA$	TEP ready to start	Warning	LED orange continuously on	Control input $\geq 1,0V/5,6mA$, but desired power not yet reached	Lamp voltage too low, lamp current higher	LED orange quick blinking	Over temperature is threatening (heat sink temperature $>70^{\circ}C$, reset with $<60^{\circ}C$)	TEP stays on	LED red slow blinking	Unsuccessful igniting,	No output voltage waiting for next ignition	Fault	LED red/orange alternately quick blinking	Mains voltage $<190V$ (but not $0V$)	TEP 20-S internal switched off	LED red/orange alternately slow blinking	Over temperature (heat sink temperature $>80^{\circ}C$, reset with $<60^{\circ}C$)	TEP 20-S internal switched off	LED red slow blinking	Output is open circuit $> 10s$, lamp not ignited	TEP 20-S internal switched off, no lamp connected or lamp has not ignited	LED red quick blinking	short circuit in lamp circuit	TEP 20-S internal switched off
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