



UPOWER DATASHEET

Power supply & control of UWAVE UV LED curing lamps

Easy-to-use & secured equipment

High repeatability, long lifetime & few maintenances



Electronics	Maximal power	50 W	200 W	600 W	1500 W	3000 W
	Input power	Single phase 64 to 240 VAC ± 10%, 50/60 Hz through IEC C14 connector				
	Output voltage	24V DC		48V DC		
	Output connector	Depending on the UV LED lamp chosen.				
	User interface (standard)	TIMER (insolation time), POTENTIOMETER (UV power), START, STOP, LOCK KEY				
Mechanics	Width x Height x Length	210 mm 100 mm 330 mm	250 mm 120 mm 410 mm		340 mm 120 mm 460 mm	
	Weight	2,5 kg	5,5 kg	7,0 kg	8,5 kg	10 kg
	Material	Device body: Aluminum alloy				
	IP rating	IP20				
Environment	Operation	Temperature: 10°C to 35°C – Humidity: 20% to 80% humidity (with no condensation) – Altitude: Up to 2000m				
	Regulations & Marking	CE - UKCA - FCC - ICES-3/NMB-3				
	Environmental standards	RoHS III Directives - REACH Regulation - WEEE Regulation				



UWAVE products compatibility

The following array presents which power supply corresponds to which UV LED lamp unit.

- 24V power supply units UPOWER

Power supply		UPOWER 50W 24V	UPOWER 200W 24V
24V power supply compatible with M8 or M12 connectors	UFIBER	☼ Up to x2	☼ Up to x6
	UTARGET-AUTO	☼ Up to x2	
	USHARP	☼ Up to x2	
	USPOT	☼ Up to x1	☼ Up to x4

- 48V power supply units UPOWER

Power supply		UPOWER 600W 48V	UPOWER 1500W 48V	UPOWER 3000W 48V
48V power supply compatible with SUBD13 or EPIC connectors	UCUBE-10	☼ Up to x4		
	UCUBE-10-HP	☼ Up to x1	☼ Up to x2	☼ Up to x4
	UCUBE-15	☼ Up to x2	☼ Up to x4	
	UCUBE-20	☼ Up to x1	☼ Up to x2	☼ Up to x4
	UBAR	☼ Up to x2	☼ Up to x6	
	UPIN 75mm	☼ Up to x4		
	USTRAIGHT & ULINE 75 mm	☼ Up to x1		
	USTRAIGHT & ULINE 150mm		☼ Up to x1	
	USTRAIGHT & ULINE 225/300/375 mm			☼ Up to x1

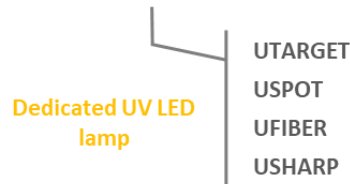


UPOWER 50W 24V

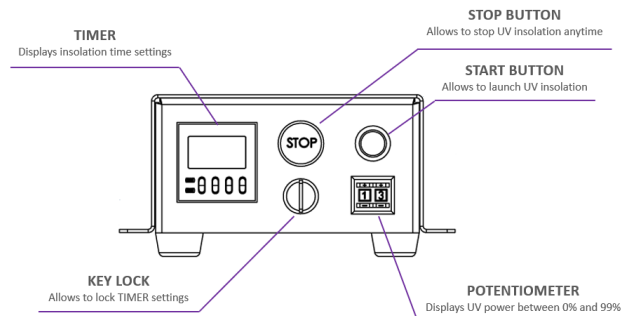
This power supply is tailored for x1 USPOT, x2 UTARGET, x2 UFIBER or x2 USHARP. It allows the user to control manually up to x2 UV LED heads in the same time thanks to its intuitive front side.

Reference:

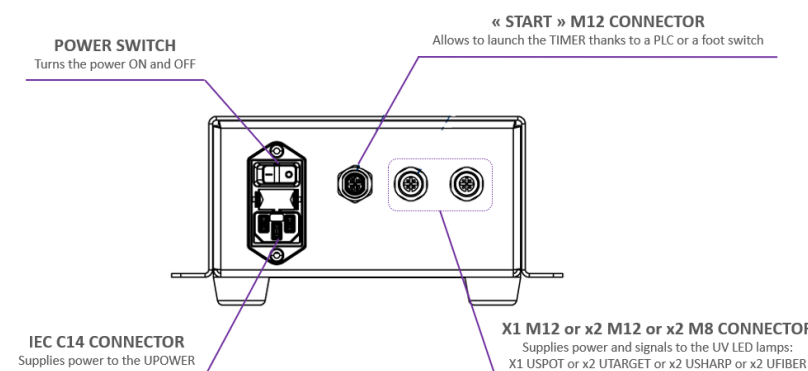
UPOWER - 50W - 24V - AAAA



Front side presentation:



Rear side presentation:



→ For further information about this power supply (whatever the version), please refer to the dedicated user manual by asking to UWAVE team.

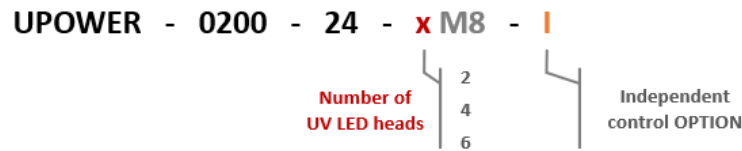


UPOWER 200W 24V

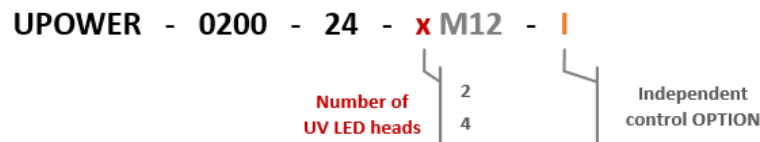
This power supply is tailored for x2, x4 or x6 UFIBER and for x2 or x4 USPOT. It allows the user to control manually one or several UV LED lamps in the same time thanks to its intuitive front side. It also allows the user to control one or several UV LED lamps externally (PLC – analogue communication) thanks to rear side connectors.

References:

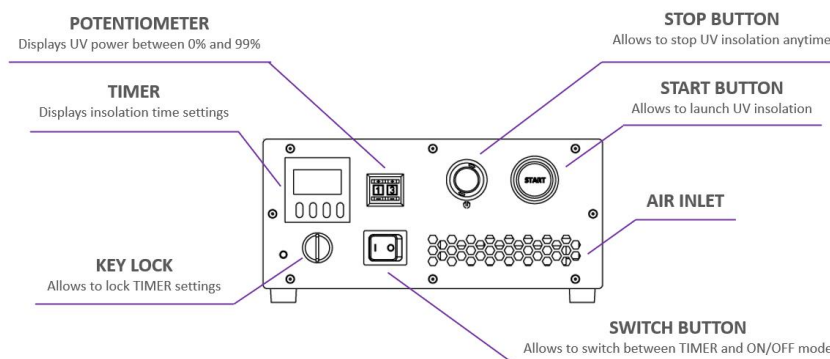
For x2, x4 or x6 UFIBER:



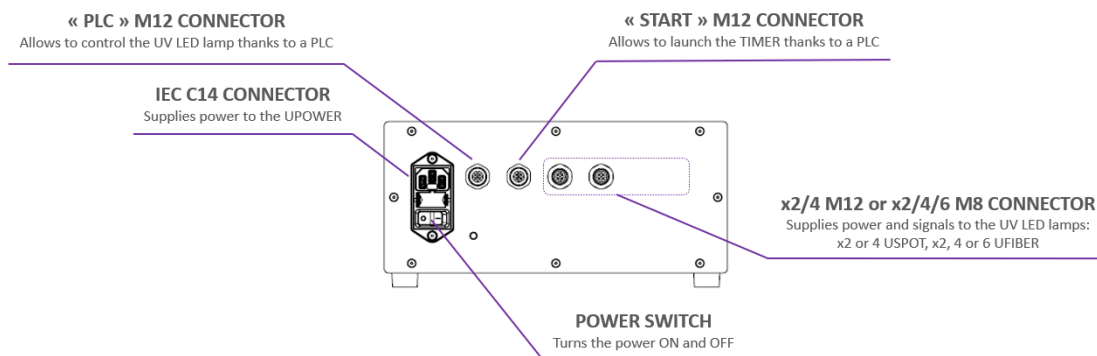
For x2 or x4 USPOT:



Front side presentation:



Rear side presentation:



➔ **For further information about this power supply (whatever the version), please refer to the dedicated user manual by asking to UWAVE team.**



UPOWER 600W 48V

This power supply is tailored for a large proportion of UWAVE UV LED lamps which integrate a SUBD connector (48V DC) such as UCUBE, UBAR, UPIN, ... It allows the user to control manually one or several UV LED lamps in the same time thanks to its intuitive front side. It also allows the user to control one or several UV LED lamps externally (PLC – analogue communication) thanks to rear side connectors.

References:

For x1 48V SUBD connector UV LED lamp :
UCUBE, UBAR, UPIN, ULINE, USTRAIGHT

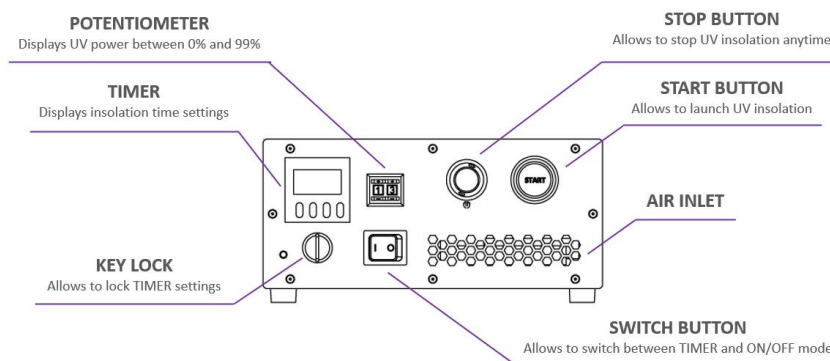
UPOWER - 0600 - 48

For several 48V SUBD connector UV LED lamps:

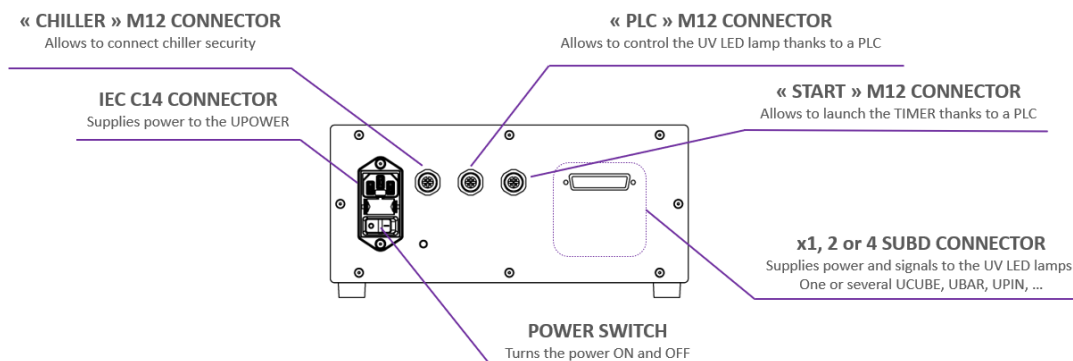
UPOWER - 0600 - 48 - x SUBD - I



Front side presentation:



Rear side presentation:



→ For further information about this power supply (whatever the version), please refer to the dedicated user manual by asking to UWAVE team.



UPOWER 1500W & 3000W 48V

This power supply is tailored for high-power UWAVE UV LED lamps (U STRAIGHT or U LINE) which integrate a EPIC connector. It allows the user to control manually one or several UV LED lamps in the same time thanks to its intuitive front side. It also allows the user to control one or several UV LED lamps externally (PLC – analogue communication) thanks to rear side connectors.

References:

For x1 U STRAIGHT or U LINE 150 mm: **UPOWER - 1500 - 48**

For x1 U STRAIGHT, U LINE 225, 300 or 375 mm: **UPOWER - 3000 - 48**

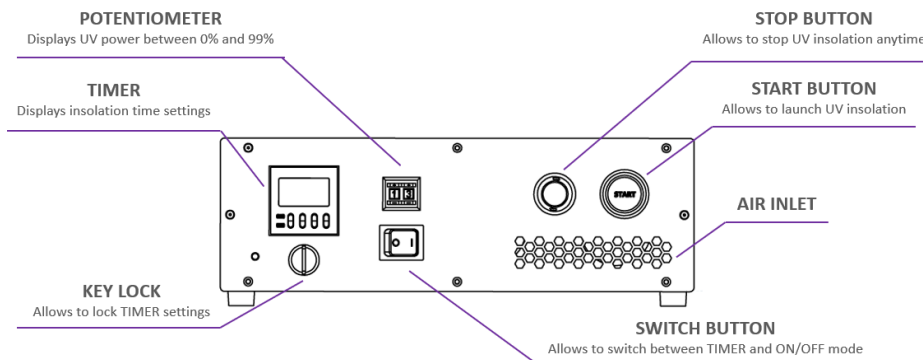
For several 48V SUBD connector UV LED lamp:
UCUBE, UBAR, UPIN, ULINE, U STRAIGHT

UPOWER - 1500 - 48 - x SUBD - I
3000

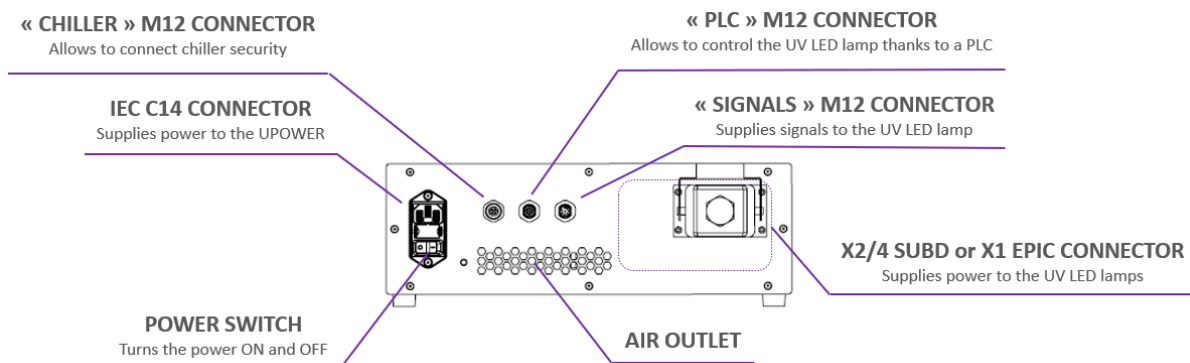
Number of UV LED lamps: 2, 4, 6

Independent control OPTION

Front side presentation:



Rear side presentation:

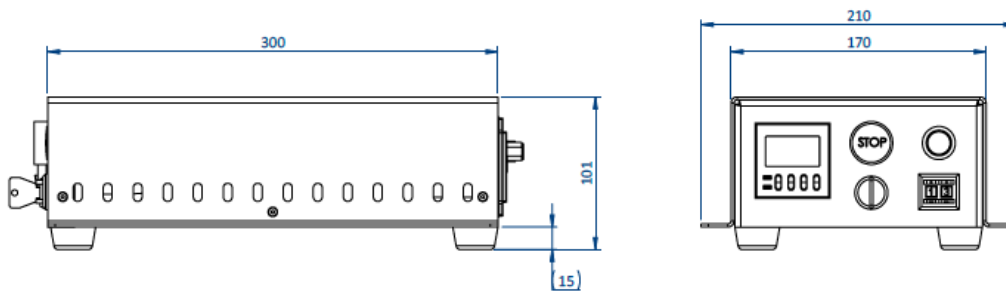


➔ **For further information about this power supply (whatever the version), please refer to the dedicated user manual by asking to UWAVE team.**

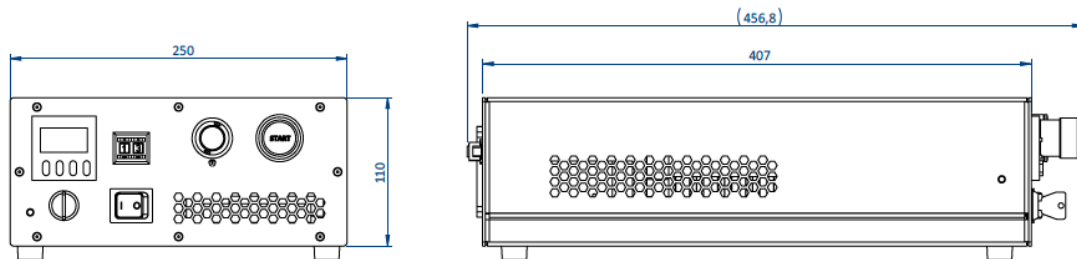


Mechanical dimensions

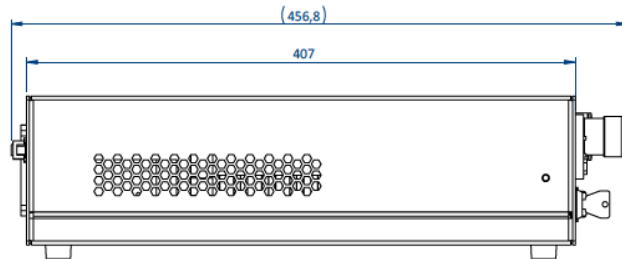
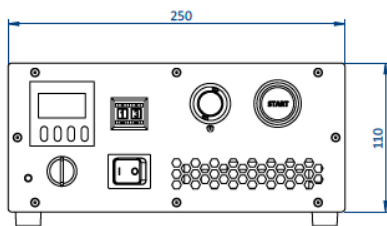
UPOWER 50W 24V



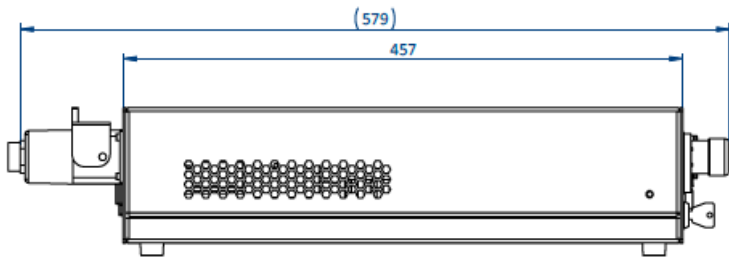
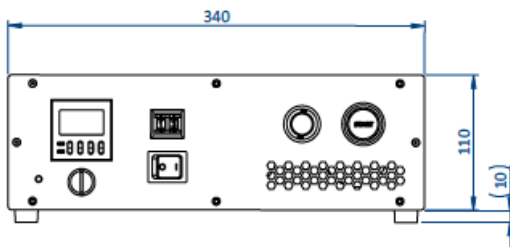
UPOWER 200W 24V



UPOWER 600W 48V



UPOWER 1500W and 3000W 48V

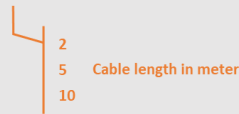
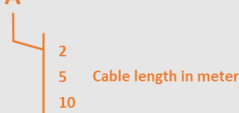



→ For further mechanical information such as STEP files, please contact UWAVE team.

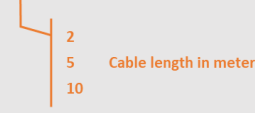
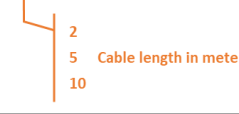

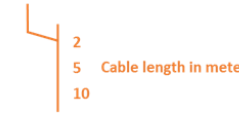



Accessories

UWAVE offers a wide range of accessories to control externally the system through a PLC:

<p>One side bare cable for PLC connection</p> <p>→ To connect to M12 named "CHILLER" or "PLC".</p>	<p>5pins cable reference: UCAB - M12 - FD - 5 - D - L A</p>  <p>8pins cable reference: UCAB - M12 - FD - 8 - D - L A</p> 
<p>Footswitch for external TIMER launch</p> <p>→ To connect to M12 named "START".</p>	 <p>Reference: FOOTSWITCH-START</p>

UWAVE offers a wide range of accessories to connect the right UV LED lamp to the right UPOWER:

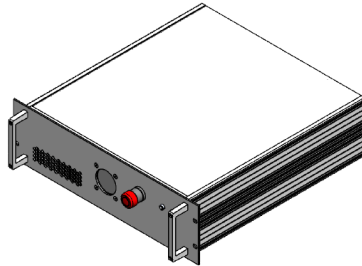
<p>Cables for USPOT, USHARP and UFLEX connection</p>	<p>UCAB - M12 - FM - 5 - DD - L A</p> 
<p>Cables for UFIBER connection</p>	<p>UCAB - M8LEMO - FM - 5 - DD - L A</p> 
<p>Cables for UTARGET connection</p>	<p>UCAB - LEMOM12 - FM - 5 - DD - L A</p> 
<p>Cables for UCUBE, UBAR, UPIN, ULINE/USTRAIGHT (< 150mm optical length) connection</p>	<p>UCAB - SUBD - FM - 13W3 - DD - L A</p> 
<p>Cables for ULINE & USTRAIGHT connection (> 150mm optical length)</p>	<p>UCAB - EPIC - FM - 4 - CC - L A</p> 



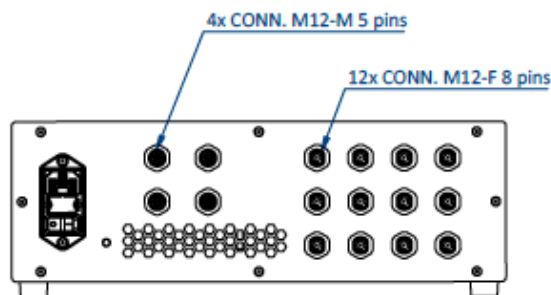
Custom Power supply

UWAVE can produce custom power supplies: Number of UV LED lamps to connect, synchronization with another equipment, type of connectors, mechanical constraints, ... Feel free to ask us.

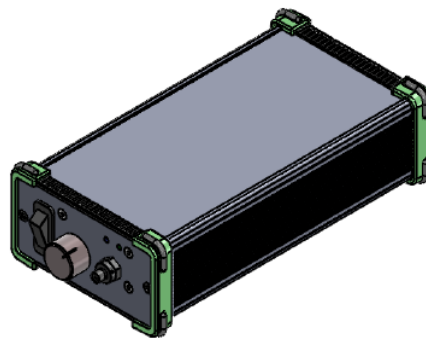
Examples of custom power supply:



19" rack integration



Power supply for 12 UV LED curing lamps



Power supply with an integrated UV LED which emits in an optical fiber.