

Electronic Lamp Drivers

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# Product catalogue

We  
power

UV

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## INTRODUCTION

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### **Nedap smart UV lamp driver technology**

Nedap is a company that provides UV lamp driver solutions for various applications such as drinking and wastewater, ballast water, air and surface disinfection, and UV curing.

Our UV lamp driver solutions are the culmination of over 30 years' experience in lamp driver technology. We partner with UV professionals from across industries and sectors to develop innovative solutions that tackle real-world challenges.

Our smart UV lamp driver hardware and software empower integrators to revolutionize UV treatment and disinfection. Selecting the right UV lamp driver optimizes efficiency, prevents power supply problems, and improves ease of installation. This can cut the total cost of ownership and increase sustainability.

#### **Low pressure UV lamp drivers**

Low pressure lamp technology has proven to be 2,5 to 3 times more energy efficient in their capabilities to convert electrical energy to the required UV light, compared to medium pressure lamp technology.

Nedap's Low Pressure lamp drivers have a proven efficiency of at least 95%. Our intelligent drivers give real time information on relevant parameters for optimal operation and maintenance of your system.

See pages 6 through 9 for our range of low pressure UV lamp drivers.

#### **Medium pressure UV lamp drivers**

Medium pressure lamps have unsurpassed power capabilities at small dimensions, and are therefore often used in compact disinfection, AOP treatment or curing solutions.

Nedap's electronic lamp drivers have proven to extend the lamp life to its double lifetime and beyond. As a direct result this leads to a reduction of lamp waste, labour costs and downtime.

The Modbus interface, and data logging empower you to create relevant insights for a smooth and sustainable operation.

See pages 10 through 19 for our range of medium pressure UV lamp drivers.

#### **LED UV drivers**

Businesses are benefitting from advanced LED UV lamp driver technology. The advantages of LED lamp drivers include a uniquely small design footprint, instant-on/off to optimise energy usage, and are built from environmentally friendly materials. Nedap produces power supplies rated from 1500W up to 6kW for modular UV LED curing systems and solutions.

See pages 21 and 22 for our range of LED UV drivers.

# INTRODUCTION

## Approved by major UV lamp manufactureres

Nedap lamp drivers work with all major brands of low- and medium-pressure UV lamps. The drivers have step-less dimming and for low pressure lamps support additional filament heating (patented) and pre-programmed lamp parameters.

## Membership

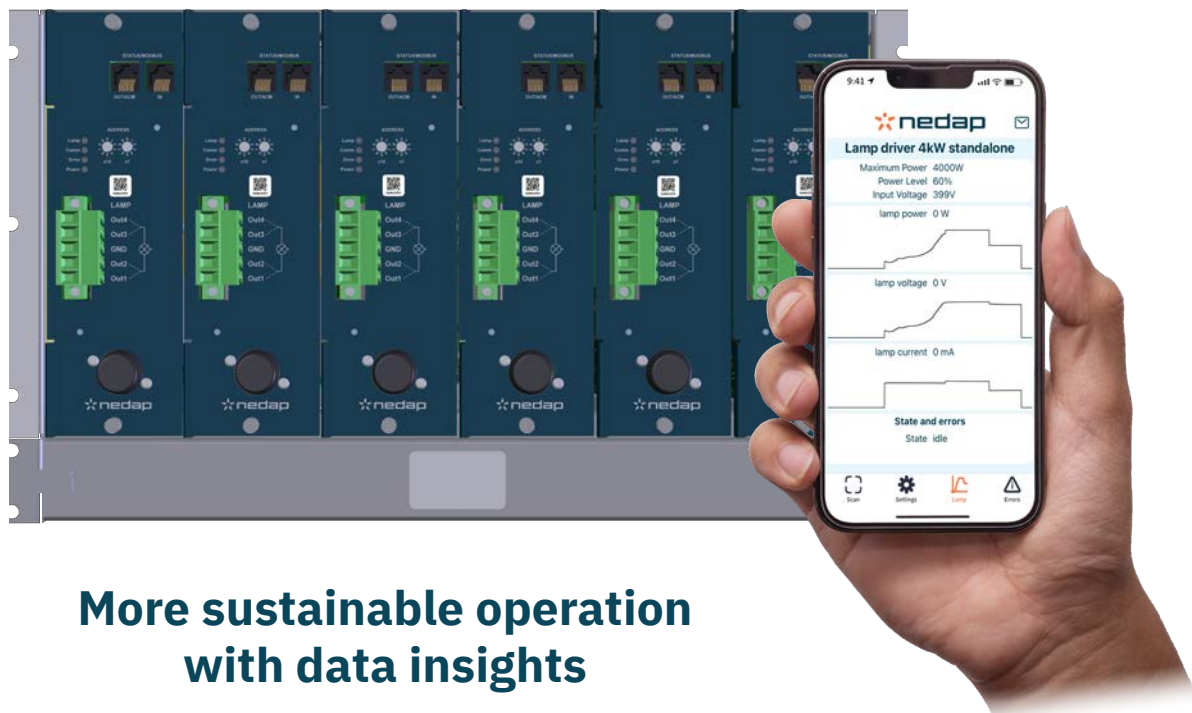
Nedap is member of the International Ultra Violet Association **IUVA**, the Associations for UV&EB Technology **Radtech USA/ Europe** and the **International Ozone Association**.



## Nedap UV Tool

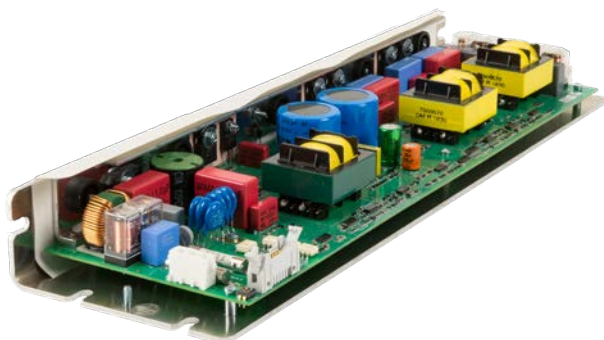
Our smart lamp driver platform offers you full control and flexibility when designing your UV solution. We offer a testtool called “Nedap UV Tool” to support the succesful integration of our lamp driver in the system.

In case of questions, our experienced support team can give a high level of support.



**More sustainable operation  
with data insights**

# Lamp Driver 2x240W



## Features

- High efficiency
- High reliability
- Long lamp life
- Multiple outputs (2 lamps)
- Low inrush current
- Constant lamp power control
- Dimming down to 60% power
- Lamp end of life protection
- Remote on/off and dimming (PWM)
- Long lamp wiring length allowed (up to 25 m)

## Applications

- UV disinfection

## Ordering information

Description	Part number	Packaging**
Lamp driver 2x240W	9985336	4pcs / box

\*\*Other quantities available upon request

## Input

Input voltage	1 phase 187 - 305 V <sub>rms</sub>
Input frequency	50/60Hz ±3Hz
Input current	peak, 2,8A
Power Factor	> 0.98
Current THD	< 5%

## Output

Lamp power	2 x 240W
Power regulation	± 3%
Lamp voltage	115 - 160 V <sub>rms</sub> at 100% power max. 200 V <sub>rms</sub> at 60% power
Lamp current	2,1 A max
Ignition voltage	1000 Vp
Dimming	60% to 100% (lamp power)
Preheat current	3 A <sub>rms</sub> - 4 seconds

## Miscellaneous

Efficiency	> 95% at nominal power
Protections	open / short output ground fault Temperature input under / overvoltage EOL rectification
Cooling	Convection
Operating temperature	0° to +65° C / 32°F to 149°F
Storage	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
Approvals	CE / cUL
Weight	3kg / 6.6 lb
Dimensions	440 x 123 x 48 mm 17.3 x 4.84 x 1.89 inch
Connector types	Input: TE 350789-1 (3-pole) Lamp: TE 640900-1 (5-pole) Control: FCI 71918-210LF (10-pole)

Specifications subject to change without notice RH20230721

# Lamp Driver UniMulti



## Features

- **Modbus** monitoring and control, remote on/off and dimming
- Easy daisy chain Modbus RJ45 control wiring
- **1-10V** or **PWM**, remote on / off and dimming
- LED status indication (status / alarms)
- Multiple outputs (2 or 4 lamps)
- Constant lamp power or lamp current control
- Wide range pre-programmed lamp types
- Programmed start for optimal lamp life
- Lamp end of life protection
- Instant start possibility
- Low inrush current
- High efficiency
- High reliability
- Long lamp wiring length allowed (7 to 40m)\*

\* depending on lamp cable type and output range, see manual

## Applications

- UV disinfection

## Selection table

	Lamp Voltage			
	67 - 90V	90- 120V	120 - 162V	162 - 220V
<b>2 lamp</b>	9946101	9948317	9948325	9946179
<b>4 lamp</b>	9940529	9948333	9948341	9949399

## Ordering information

Description	Part number	Packaging**
Lamp Driver UniMulti 2 Lamp 67-90V	9946101	6 pcs / box
Lamp Driver UniMulti 2 Lamp 90-120V	9948317	
Lamp Driver UniMulti 2 Lamp 120-162V	9948325	
Lamp Driver UniMulti 2 Lamp 162-220V	9946179	
Lamp Driver UniMulti 4 Lamp 67-90V	9940529	
Lamp Driver UniMulti 4 Lamp 90-120V	9948333	
Lamp Driver UniMulti 4 Lamp 120-162V	9948341	
Lamp Driver UniMulti 4 Lamp 162-220V	9949399	

\*\*Other quantities available upon request

## Input

<b>Input voltage *</b>	1 phase 100-140Vac at total power < 440W 180-305Vac at total power < 880W
<b>Input frequency</b>	50/60Hz ±3Hz
<b>Input current</b>	5.2 A max
<b>Inrush current</b>	20A max. at 305Vac
<b>Power Factor</b>	> 0.98
<b>Current THD</b>	< 8%
<b>Standby power</b>	< 4W

\* If the input voltage drops below 180V the output power will be dimmed to attempt to continue lamp operation. Below 100V (typ.) the lamp driver will switch off.

## Output

<b>Lamp power</b>	4 x 90 - 220W or 2 x 220 - 440W*)
<b>Power regulation</b>	± 3%
<b>Lamp voltage</b>	67 - 90V / 90 - 120 V 120 - 162V / 162 - 220 V*)
<b>Ignition voltage</b>	660 / 900 / 1200 / 1600 Vp*) 7 attempts
<b>Dimming</b>	50% (lamp current) 60% (lamp power)

## Miscellaneous

<b>Efficiency</b>	> 95% at nominal power and 200 - 277V input
<b>Protections</b>	open / short output ground fault temperature input under / overvoltage EOL rectification
<b>Cooling</b>	Forced air cooling
<b>Operating temperature</b>	Tamb: 0°C - 55°C / 32°F to 131°F Tcase: 0°C - 65°C / 32°F to 149°F 20 - 95% non-condensing
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL / cUL
<b>Weight</b>	2kg / 4.4lb
<b>Dimensions</b>	300 x 200 x 73 mm 11.8 x 7.87 x 2.87 inch
<b>Connector types</b>	Wago type 257 / RJ45

\*Depending on version

Specifications subject to change without notice RH20231211

# Lamp Driver 800W



## Features

- **Modbus** monitoring and control, remote on/off and dimming
- Dimming with additional filament heating
- **0 - 10V** control of output power
- 4 LED status indication
- Small size / low weight
- Continuous GND fault detection
- Lamp End of Life (EOL) protection
- Autorange input
- High PF and Low input current THD
- High efficiency
- Low inrush current
- Opto-isolated control outputs
  - Lamp on
  - System status
  - Lamp driver status
  - Lamp status
- Long lamp cable length (up to 38m / 124ft)\*

\* depending on lamp cable type, see manual

## Applications

- UV Disinfection
- UV Curing

## Ordering information

Description	Part number	Packaging**
Lamp driver 800W	9560114	6pcs /box

\*\*Other quantities available upon request

## Input

<b>Input voltage *</b>	1 phase 200 - 277 Vac $\pm$ 10%
<b>Input frequency</b>	50/60Hz $\pm$ 3Hz
<b>Input current</b>	4.5 A max.
<b>Inrush current</b>	4.5 A max. at 305Vac
<b>Power Factor</b>	> 0.98 at 100% power
<b>Current THD</b>	< 5% typ.
<b>Standby power</b>	< 5 Watt.

\* If the input voltage drops below 180V the output power will be dimmed to attempt to continue lamp operation. Below 100V (typ.) the lamp driver will switch off.

## Output

<b>Lamp power</b>	240 - 800W
<b>Lamp voltage</b>	90 - 160 V <sub>rms</sub> typ.
<b>Lamp current</b>	2 - 9.5 A
<b>Ignition voltage</b>	1200 V <sub>p</sub> / 7 attempts with interval 14s + preheat time
<b>Dimming</b>	down to 30% Adjustable filament heating during dimming
<b>Filament power</b>	60W (0 to 30 W per filament)
<b>Preheat</b>	adjustable 8 A max Power up to 2 x 80W adjustable duration

## Miscellaneous

<b>Efficiency</b>	> 94% typ.
<b>Protections</b>	open / short output ground fault lamp leakage temperature input under / overvoltage EOL rectification
<b>Cooling</b>	Field replaceable fan
<b>Lamp cable</b>	38m / 124ft max.
<b>Operating temperature</b>	0°C - 50°C / 32°F to 122°F 20 - 95% non-condensing
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL / cUL
<b>Weight</b>	3.1kg / 6.9lb
<b>Dimensions</b>	299 x 203 x 70.2 mm 11.8 x 7.99 x 2.76 inch
<b>Connector types</b>	Input: Phoenix: GFKC 2.5/3-st-7,62 Lamp: Phoenix: GFKIC 2,5/4-st-7,62 Control: Modular Jack RJ45

Specifications subject to change without notice RH20240206



# Lamp Driver Full Rack 2x1000W



## Features

- **Modbus** monitoring and control, remote on/off and dimming
- Dimming with additional filament heating
- Status indication LED's
- Preprogrammed lamp parameters for optimal lamp life
- Allows very small footprint cabinets
- High PF and Low input current THD
- Continuous GND fault detection
- High efficiency
- Low inrush current
- Lamp End of Life (EOL) protection
- Long lamp cable length (up to 30m / 98ft)\*

\* depending on lamp cable type, see manual

## Applications

- UV Disinfection

## Ordering information

Description	Part number	Packaging
Lamp driver Full Rack 2x1000W	9987700	1pcs (6pcs / pallet)
Rack 2 x1000W	7681437	1pcs / box
Lamp Driver Rack Mount 2x1000W	9988467	1pcs / box
Rack Blind Plate 2x1000kW	9233296	10pcs/box

## Input

<b>Input voltage Rack</b>	360 - 480 V <sub>ac</sub> (312 - 528 V <sub>ac</sub> ) 3PH + N + PE
<b>Input current Rack</b>	31.5 - 18.6 A
<b>Input voltage Driver *</b>	208 -277 V <sub>ac</sub> (180 - 305 V <sub>ac</sub> ) 1PH + N + PE
<b>Input current Driver</b>	11.8 - 6.9 A
<b>Input frequency</b>	50/60 Hz ± 3 Hz
<b>Inrush current</b>	Lower than operating current
<b>Power Factor</b>	> 0.99 at 100% power
<b>Current THD</b>	< 5% at max. power
<b>Standby power</b>	< 5 W

\* If the input voltage drops below 180V the output power will be dimmed to attempt to continue lamp operation. Below 100V (typ.) the lamp driver will switch off.

## Output

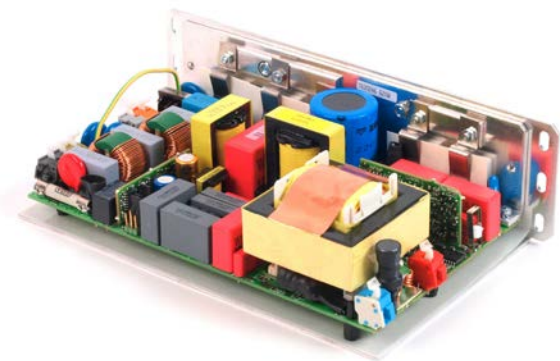
<b>Output power Rack</b>	16.000W (16 lamps of 1000 W)
<b>Lamp Power</b>	300-1000 W (± 30 W)
<b>Lamp voltage</b>	105 - 150 V <sub>rms</sub> at P <sub>out</sub> =1000W
<b>lamp current</b>	2 - 9.5 A
<b>Ignition voltage</b>	1200 V <sub>p</sub> / 7 attempts with interval 14s + preheat time
<b>Filament power</b>	60W (0 to 30 W per filament)
<b>Dimming</b>	down to 30% adjustable filament heating during dimming
<b>Preheat</b>	adjustable 8 A max power up to 2 x 80W adjustable duration

## Miscellaneous

<b>Efficiency</b>	> 94% typ.
<b>Protections</b>	open / short output ground fault / lamp leakage temperature input under/overvoltage EOL rectification
<b>Cooling</b>	fan tray required / fans not included 40 cfm per lamp driver
<b>Lamp cable</b>	30m max.
<b>Operating temperature</b>	0 - +50° C / 32°F to 122°F
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL / cUL
<b>Weight</b>	32 kg / 71 lb
<b>Rack 19" 6U dimensions</b>	483 x 266 x 413 mm 19.0 x 10.5 x 16.3 inch
<b>Rack Connectors</b>	Input: Phoenix PC6-16/5-G1-10 Lamp: Phoenix GIC2,5/4-G-7,62 Control: Phoenix MCV 1,5/ 3-GF-3,5

Specifications subject to change without notice RH20240205

# Lamp Driver 620W



## Features

- Analog **1 - 10V** dimming
- Powers MH & HPS lamps
- Limited inrush current
- Low leakage current
- Input Power Factor Correction
- Low line distortion
- Five distinct user selectable (shunt) power settings
- Two distinct user selectable (shunt) minimum dim level settings
- Up to 9m / 30 ft cable between driver and lamp\*
- Typical MH re-strike within 5 minutes, HPS instantaneous
- Bracket mount version
- Protections:
  - Open Output
  - Output short
  - Output over voltage
  - Thermal
  - Lamp end of Life / Rectification
  - Lamp power reduction at low line input

\* depending on lamp cable type

## Applications

- UV Curing
- UV Disinfection
- UV Tanning

## Ordering information

Description	Part number	Packaging**
Lamp driver 620W	9947736	12pcs / box

\*\*Other quantities available upon request

## Input

<b>Input voltage</b>	1 phase 180 - 305 V <sub>rms</sub>				
<b>Input frequency</b>	50/60Hz ±3Hz				
<b>Input current</b>	3.7A maximum at 180 V <sub>rms</sub>				
<b>Inrush current</b>	< 7.6A at 230 V <sub>rms</sub>				
<b>Shunt position, see manual</b>	P1	P2	P3	P4	P5
<b>Output power</b>	380	400	500	600	620W
<b>THD (Current) at 230 V<sub>rms</sub></b>	9.5	9.3	8.5	8.0	8.0%
<b>Power Factor at 230 V<sub>rms</sub></b>	0.96	0.96	0.97	0.98	0.98
<b>Leakage current</b>	< 3.5mA				

## Output

<b>Output voltage V<sub>out</sub></b>	120 - 200 V <sub>rms</sub> , 620W output				
<b>Minimum driver frequency</b>	85kHz				
<b>Run-up current</b>	5.0A				
<b>Shunt position, see manual</b>	P1	P2	P3	P4	P5
<b>Current at 120 V<sub>out</sub></b>	3.2	3.3	4.2	3.2	5.2A
<b>Maximum Crest Factor</b>	1.6				
<b>Ignition</b>	2.2kVp				
<b>Regulation Within</b>	± 2%				
<b>1 - 10Vdc analog Dimming</b>	According to EN60929				
<b>Shunt position</b>	P1	P2	P3	P4	P5
<b>Minimum dim level = 50%</b>	190	200	150	300	310W
<b>Minimum dim level = 30%</b>	117	120	150	180	180W
See manual for settings					

## Miscellaneous

<b>Efficiency</b>	95% at Pmax.
<b>Cooling</b>	Heat sinking required
<b>Operating temperature</b>	0°C to +50°C / 32°F to 122°F
<b>Storage temperature</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / cUL / FCC pending UL designation: NMP-620-M
<b>Weight</b>	1.1 kg / 2.5 lb
<b>Dimensions</b>	238 x 123 x 67mm 9.37 x 4.84 x 2.64 inch
<b>Connectors</b>	Cage clamps

Specifications subject to change without notice RH20231211

# Lamp Driver 1 - 3.5kW



## Features

- PWM control of output power
- Optional: serial **Modbus** communication
- Very small size, low weight
- Very wide input & load range
- Remote on / off
- High efficiency
- High PF and Low input current THD
- Opto-isolated control outputs
  - Lamp on
  - System status
  - Lamp driver status
  - Lamp status
- Optimized for minimum acoustic resonance

## Applications

- UV Disinfection
- UV Disinfection Ballast Water
- UV Curing

## Ordering information

Description	Part number	Packaging**
Lamp driver 1-3.5kW Basic	9984887	4pcs / box
Lamp driver 1-3.5kW Modbus	9984607	144pcs / pallet

\*\*Other quantities available upon request

## Input

<b>Input voltage</b>	1 phase 180-305 V <sub>rms</sub> 90-305 V <sub>rms</sub> up to 1.8 kW output power
<b>Input frequency</b>	50/60Hz ±3Hz
<b>Input current</b>	21.5 A max.
<b>Power Factor</b>	> 0.98 at 100% power
<b>Current THD</b>	< 5% typ.

## Output

<b>Power</b>	controlled within 5% 600-3500W
<b>Voltage range</b>	@ 3,5kW 411 - 520 V <sub>rms</sub> @ 3kW 352 - 500 V <sub>rms</sub> @ 2kW 235 - 450 V <sub>rms</sub> @ 1kW 118 - 350 V <sub>rms</sub>
<b>Current limit</b>	10 A typ.
<b>Nominal current</b>	< 8.5 A
<b>Crest factor</b>	1.6
<b>Dimming</b>	down to 14% (@ 3kW mode)
<b>Ignition voltage</b>	2000 Vp 250 msec. max, no hot restrike

## Miscellaneous

<b>Efficiency</b>	> 95% typ.
<b>Protections</b>	output open / short output overvoltage input under / overvoltage temperature
<b>Cooling</b>	Air or liquid cooling Preferred aluminium heatsink with water or aluminium heatsink with forced air cooling. Maximum heatsink temperature: 60° C
<b>Operating temperature</b>	0° - 55° C / 32°F to 131°F
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / cUL UL designation: NMPM
<b>Weight</b>	3 kg / 6.6 lb
<b>Dimensions</b>	330 x 140 x 65 mm Excl. optional heatsink
<b>Connector types</b>	Input: Phoenix FRONT 4-H-7,62 Lamp: Phoenix FRONT 4-H-7,62 Analog control: Phoenix MC 0,5/8-G-2,5 Modbus control: Phoenix FK-MC 0,5/3-ST-2,5

Specifications subject to change without notice RH20230721

# Lamp Driver 1-3.5 kW with Heatsink



## Features

- PWM control of output power
- Optional: serial **Modbus** communication
- Very small size, low weight
- Very wide input & load range
- Remote on / off
- High efficiency
- High PF and Low input current THD
- Opto-isolated control outputs
  - Lamp on
  - System status
  - Lamp driver status
  - Lamp status
- Optimized for minimum acoustic resonance

## Applications

- UV Disinfection
- UV Curing

## Ordering information

Description	Part number	Packaging
Lamp driver 1-3.5kW Basic + Heatsink	9985131	1pcs / box
Lamp driver 1-3.5kW Modbus + Heatsink	9985123	80pcs/pallet

## Input

<b>Input voltage</b>	1 phase 180-305 V <sub>rms</sub> 90-305 V <sub>rms</sub> up to 1.8 kW output power
<b>Input frequency</b>	50/60Hz ±3Hz
<b>Input current</b>	21.5 A max.
<b>Power Factor</b>	> 0.98 at 100% power
<b>Current THD</b>	< 5% typ.

## Output

<b>Power</b>	controlled within 5% 600 - 3500W
<b>Voltage range</b>	@ 3,5kW 411 - 520 V <sub>rms</sub> @ 3kW 352 - 500 V <sub>rms</sub> @ 2kW 235 - 450 V <sub>rms</sub> @ 1kW 118 - 350 V <sub>rms</sub>
<b>Current limit</b>	10 A typ.
<b>Nominal current</b>	< 8.5 A
<b>Crest factor</b>	1.6
<b>Dimming</b>	down to 14% (@ 3kW mode)
<b>Ignition voltage</b>	2000 Vp 250 msec. max, no hot restrike

## Miscellaneous

<b>Efficiency</b>	> 95 % typ.
<b>Protections</b>	output open / short output overvoltage Input under / overvoltage temperature
<b>Cooling</b>	Air cooling
<b>Operating temperature</b>	0° - 55° C / 32°F to 131°F
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / cUL UL designation: NMPM
<b>Weight</b>	5.5 kg / 12.2 lb
<b>Dimensions</b>	330 x 230 x 100 mm 13.0 x 9.06 x 3.94 inch incl. heatsink
<b>Connector types</b>	Input: Phoenix FRONT 4-H-7,62 Lamp: Phoenix FRONT 4-H-7,62 Analog control: Phoenix MC 0,5/8-G-2,5 Modbus control: Phoenix FK-MC 0,5/3-ST-2,5

Specifications subject to change without notice RH20230721

# Lamp Driver 4kW



## Features

- **Modbus** monitoring and control, remote on/off and dimming
- Wireless diagnostic **Bluetooth** monitor (IOS and Android)
- Support wide range of medium pressure UV lamps worldwide
- Very compact, low weight
- Very wide input voltage range
- Parallel operation up to 8kW
- Up to 40m\* / 131ft lamp cable length\*
- Optimized for minimum acoustic resonance
- Ground Fault detection (also in lamp idle mode)
- High efficiency, High PF and Low input current THD

\*depending on selected output and lamp cable type, see manual

## Applications

- UV Disinfection
- Advanced oxidation processes
- Ballast water disinfection
- UV Curing systems

## Ordering information

Description	Part number	Packaging
Lamp driver 4kW	9987126	1pcs/box

## Input

<b>Input voltage</b>	400/440/480 Vac $\pm$ 10% 2PH + PE
<b>Input current</b>	12 A max.
<b>Input frequency</b>	50/60Hz $\pm$ 3Hz
<b>Inrush current</b>	7.5 A max. at 528 Vac
<b>Power Factor</b>	> 0.98 (at 1-4kW) @ multiple of 3 drivers distributed over 3 phases
<b>Current THD</b>	< 5% typ.
<b>Standby Power</b>	< 5W

\* If Input voltage is below 360V the output power will be dimmed to attempt to continue operation and keep the input current below 42A. Below 165V the lamp driver will switch off.

## Output

<b>Power accuracy</b>	<5% (at 0.4-4 kW)
<b>Voltage ranges</b>	Single 4kW

	Voltage <sub>Output</sub> (Vrms)	Current <sub>Output</sub> (A)	Current <sub>Output</sub> (A)	Ignition <sub>Typ</sub> (kV <sub>peak</sub> )	Cable Cap <sub>max</sub> (nF)
Range 1	315	6.9	14.8	2.1	9
Range 2	375	5.8	12.7	2.6	6
Range 3	440	4.9	10.6	3.0	4.5
Range 4	525	4.3	9.1	3.5	3

<b>Frequency</b>	40 - 240kHz
<b>Warmup current</b>	115% of current (max)
<b>Crest factor</b>	< 1.6
<b>Dimming</b>	down to 10% of 4000 W
<b>Ignition</b>	10 starts of 0.5s / 1min off 10 attempts Total of 100 strikes, no hot restrike

## Miscellaneous

<b>Efficiency</b>	> 96.5% typ.
<b>Protections</b>	output open / short output overvoltage input under / overvoltage ground fault temperature lamp EOL rectification
<b>Cooling</b>	forced air cooling
<b>Operating conditions</b>	0°C - 55°C / 32°F to 131°F 25 - 95% non-condensing
<b>Storage conditions</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL1029 / FCC47 part18 DNV No. 2.4
<b>Weight</b>	7,3kg / 16.1 lb
<b>Dimensions</b>	395 x 244 x 87 mm 15.6 x 9.61 x 3.43 inch
<b>Connector types</b>	Input: Phoenix PC 5/ 3-G-7,62 Lamp: Phoenix, IPC 5/5 -GF-7,62 Modbus control: Modular Jack RJ45

Specifications subject to change without notice RH20231211

# Lamp Driver 8kW



## Features

- **Modbus** monitoring and control, remote on/off and dimming
- Wireless diagnostic **Bluetooth** monitor (IOS and Android)
- Support wide range of medium pressure UV lamps worldwide
- Very compact, low weight
- Very wide input voltage range
- Up to 40m / 131ft lamp cable length\*
- Optimized for minimum acoustic resonance
- Ground Fault detection (also in lamp idle mode)
- High efficiency, High PF and Low input current THD

\*depending on selected output and lamp cable type, see manual

## Applications

- UV Disinfection
- Advanced oxidation processes
- Ballast water disinfection
- UV Curing systems

## Ordering information

Description	Part number	Packaging
Lamp driver 4kW	2x 9987126	2x 1pcs / box
Dual mount set 4kW	9232885	1pcs / box
Bus Terminations RJ45	5005752	20pcs / box

## Input

<b>Input voltage</b>	400/440/480 Vac $\pm$ 10% 2PH + PE (3PH not recommended)
<b>Input current</b>	12 A max. per phase
<b>Input frequency</b>	50/60Hz $\pm$ 3Hz
<b>Inrush current</b>	7.5 A max. at 528 Vac per phase
<b>Power Factor</b>	> 0.98 (at 2-8kW) @ multiple of 3 drivers distributed over 3 phases
<b>Current THD</b>	< 5% typ.
<b>Standby Power</b>	< 5W per driver

\* If Input voltage is below 360V the output power will be dimmed to attempt to continue operation and keep the input current below 42A. Below 165V the lamp driver will switch off.

## Output

<b>Power accuracy</b>	<5% (at 0.8-8 kW)																														
<b>Voltage ranges</b>	8kW parallel configuration																														
	<table border="1"> <thead> <tr> <th></th> <th>Voltage<sub>max</sub> (Vrms)</th> <th>Current<sub>max</sub> (A)</th> <th>Current<sub>max</sub> (A)</th> <th>Ignition<sub>typ</sub> (kV<sub>max</sub>)</th> <th>Cable Cap<sub>max</sub> (nF)</th> </tr> </thead> <tbody> <tr> <td>Range 1</td> <td>315</td> <td>13.9</td> <td>29.6</td> <td>2.1</td> <td>18</td> </tr> <tr> <td>Range 2</td> <td>375</td> <td>11.5</td> <td>25.4</td> <td>2.6</td> <td>12</td> </tr> <tr> <td>Range 3</td> <td>440</td> <td>9.8</td> <td>21.2</td> <td>3.0</td> <td>9</td> </tr> <tr> <td>Range 4</td> <td>525</td> <td>8.5</td> <td>18.2</td> <td>3.5</td> <td>6</td> </tr> </tbody> </table>		Voltage <sub>max</sub> (Vrms)	Current <sub>max</sub> (A)	Current <sub>max</sub> (A)	Ignition <sub>typ</sub> (kV <sub>max</sub> )	Cable Cap <sub>max</sub> (nF)	Range 1	315	13.9	29.6	2.1	18	Range 2	375	11.5	25.4	2.6	12	Range 3	440	9.8	21.2	3.0	9	Range 4	525	8.5	18.2	3.5	6
	Voltage <sub>max</sub> (Vrms)	Current <sub>max</sub> (A)	Current <sub>max</sub> (A)	Ignition <sub>typ</sub> (kV <sub>max</sub> )	Cable Cap <sub>max</sub> (nF)																										
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Range 4	525	8.5	18.2	3.5	6																										
<b>Frequency</b>	40 - 240kHz																														
<b>Warmup current</b>	115% of current (max)																														
<b>Crest factor</b>	< 1.6																														
<b>Dimming</b>	down to 10% of 8000 W																														
<b>Ignition</b>	10 starts of 0.5s / 1min off 10 attempts Total of 100 strikes, no hot restrike																														

## Miscellaneous

<b>Efficiency</b>	> 96.5% typ.
<b>Protections</b>	output open / short output overvoltage input under / overvoltage ground fault temperature lamp EOL rectification
<b>Cooling</b>	forced air cooling
<b>Operating conditions</b>	0°C - 55°C / 32°F to 131°F 25 - 95% non-condensing
<b>Storage conditions</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL1029 / FCC47 part18 DNV No. 2.4
<b>Weight</b>	14,6kg / 32.2 lb
<b>Dimensions</b>	395 x 244 x 172 mm 15.6 x 9.61 x 6.8 inch
<b>Connector type</b>	Input: Phoenix PC 5/ 3-G-7,62 Lamp: Phoenix, IPC 5/5 -GF-7,62 Modbus control: Modular Jack RJ45

Specifications subject to change without notice RH20231211

# Lamp Driver Full Rack 4kW



## Features

- Modbus monitoring and control, remote on/off and dimming
- Wireless diagnostic **Bluetooth** monitor (IOS and Android)
- Support wide range of medium pressure UV lamps worldwide
- Very wide input voltage range
- Parallel and series operation up to 8kW
- Optimized for minimum acoustic resonance
- Ground Fault detection (also in lamp idle mode)
- High PF and Low input current THD
- High efficiency
- Full Rack 19" with 6 x 4kW Lamp drivers to operate as:
  - 6 x 4kW single drivers
  - 3 x 8kW lamp drivers in parallel for high current lamps up to 29.6A
  - 2 x 8kW lamp drivers in series for high voltage lamps up to 1050V  
For series configuration a balancer is needed
- Up to 40m / 131ft lamp cable length\*
- Integrated Fan tray power supply

\*depending on selected output and lamp cable type, see manual

## Applications

- UV Disinfection
- Advanced oxidation processes
- Ballast water disinfection
- UV Curing systems

## Ordering information

Description	Part number	Packaging
Lamp driver Full Rack 4kW	9987801	1pcs / box (pallet)
Fan Tray 4kW	9230661	1pcs / box
Rack 4kW	7682239	1pcs / box
Lamp Driver Rack Mount 4kW	9988459	1pcs / box
Balancer Rack Mount 4kW	9988203	1pcs / box
Rack Blind Plate 4kW	9232893	10pcs/box

## Input

<b>Input voltage *</b>	400/440/480 Vac ± 10% 3PH + PE
<b>Input current</b>	42 A max. (full rack)
<b>Input frequency</b>	50/60Hz ±3Hz
<b>Power Factor</b>	> 0.98 @ multiples of 3 lamp drivers
<b>Current THD</b>	< 5% typ.
<b>Standby Power</b>	< 30W

\* If Input voltage is below 360V the output power will be dimmed to attempt to continue operation and keep the input current below 42A. Below 165V the lamp driver will switch off.

## Output

<b>Power accuracy</b>	<5% (at 0.4-4 kW/0.8-8kW)																														
<b>Voltage ranges</b>	Single 4kW See manual for ranges of 8kW series and parallel configurations																														
	<table border="1"> <thead> <tr> <th></th> <th>Voltage<sub>rms</sub> (Vrms)</th> <th>Current<sub>rms</sub> (A)</th> <th>Current<sub>max</sub> (A)</th> <th>Ignition<sub>typ</sub> (kV<sub>max</sub>)</th> <th>Cable Cap<sub>max</sub> (nF)</th> </tr> </thead> <tbody> <tr> <td>Range 1</td> <td>315</td> <td>6.9</td> <td>14.8</td> <td>2.1</td> <td>9</td> </tr> <tr> <td>Range 2</td> <td>375</td> <td>5.8</td> <td>12.7</td> <td>2.6</td> <td>6</td> </tr> <tr> <td>Range 3</td> <td>440</td> <td>4.9</td> <td>10.6</td> <td>3.0</td> <td>4.5</td> </tr> <tr> <td>Range 4</td> <td>525</td> <td>4.3</td> <td>9.1</td> <td>3.5</td> <td>3</td> </tr> </tbody> </table>		Voltage <sub>rms</sub> (Vrms)	Current <sub>rms</sub> (A)	Current <sub>max</sub> (A)	Ignition <sub>typ</sub> (kV <sub>max</sub> )	Cable Cap <sub>max</sub> (nF)	Range 1	315	6.9	14.8	2.1	9	Range 2	375	5.8	12.7	2.6	6	Range 3	440	4.9	10.6	3.0	4.5	Range 4	525	4.3	9.1	3.5	3
	Voltage <sub>rms</sub> (Vrms)	Current <sub>rms</sub> (A)	Current <sub>max</sub> (A)	Ignition <sub>typ</sub> (kV <sub>max</sub> )	Cable Cap <sub>max</sub> (nF)																										
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Range 3	440	4.9	10.6	3.0	4.5																										
Range 4	525	4.3	9.1	3.5	3																										
<b>Frequency</b>	40 - 240kHz																														
<b>Warmup current</b>	115% of current (max)																														
<b>Crest factor</b>	< 1.6																														
<b>Dimming</b>	down to 10% of 4/8kW																														
<b>Ignition</b>	10 starts of 0.5s / 1min off 10 attempts Total of 100 strikes, no hot restrike																														

## Miscellaneous

<b>Efficiency</b>	> 96.5% typ.
<b>Protections</b>	output open / short / overvoltage input under / overvoltage ground fault / temperature lamp EOL rectification
<b>Cooling</b>	Nedap Fan Tray P/N 9230661 Dimensions: 19" x 1U Forced air cooling needed at 70 CFM per driver
<b>Operating conditions</b>	0°C - 55°C / 32°F to 131°F 25 - 95% non-condensing
<b>Storage conditions</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL1029 / FCC47 part18
<b>Weight</b>	28,5kg / 62.9 lb
<b>Rack 19" 5U dimensions</b>	483 x 222 x 442 mm 19.0 x 8.7 x 17.4 inch
<b>Rack connectors</b>	Input: Phoenix PLH 16/4-15 Lamp: Phoenix, IPC 5/5 -GF-7,62 2 Lamps with balancer: Phoenix, PC 5/10 -G-7,62 Modbus control: Modular Jack RJ45

Specifications subject to change without notice RH20240205

# Lamp Driver 6kW



## Features

- Output power control: **PWM** or **1 - 10V** signal
- Optional: serial **Modbus** communication
- Remote on / off
- Control status with 4 LED's
- Very small size, low weight
- Very wide input & load range
- High PF and Low input current THD
- High efficiency
- Opto-isolated control outputs
  - Lamp on
  - System status
  - Lamp driver status
  - Lamp status
- Optimized for minimum acoustic resonance

## Applications

- UV Disinfection
- UV Curing

## Ordering information

Description	Part number	Packaging
Lamp driver 6kW	9559531	
Lamp driver 6kW Modbus	9927034	1pcs / box
Lamp driver HV 6kW Modbus	9954961	

## Input

<b>Input voltage</b>	200 - 277 Vac $\pm 10\%$ 1 phase / 3 wires L1 - N - PE 2 lines / 3 wires L1 - L2 - PE 2 lines / 4 wires L1 - L2 - N - PE
<b>Input frequency</b>	50/60Hz $\pm 3\text{Hz}$
<b>Input current</b>	1 phase 36 A max, 2 phase 2x 18 A max.
<b>Power Factor</b>	> 0.98 at 100% power
<b>Current THD</b>	< 5% typ.

## Output

<b>Power</b>	controlled within 5% 1000 - 6000W
<b>Voltage range</b>	353 - 500 V <sub>rms</sub> 500 - 650 V <sub>rms</sub> (HV version)
<b>Nominal current</b>	< 17A. < 12A (HV version)
<b>Current limit</b>	20 A typ. 15A (HV version)
<b>Crest factor</b>	< 1.6
<b>Dimming</b>	down to 17%
<b>Ignition voltage</b>	LV version: 1600 Vp HV version: 2500 Vp 250 msec. max., no hot restrike

## Miscellaneous

<b>Efficiency</b>	> 94% typ.
<b>Protections</b>	output open / short output overvoltage input under / overvoltage temperature
<b>Cooling</b>	Forced air cooling
<b>Operating temperature</b>	0° - 40° C / 32°F to 104°F
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL / cUL UL designation: NMPL
<b>Weight</b>	13,8 kg / 30.5 lb
<b>Dimensions</b>	400 x 255 x 190 mm 15.8 x 10.1 x 7.48 inch
<b>Connectors</b>	Phoenix DFK - PC / MC

Specifications subject to change without notice RH20230721



# Lamp Driver 12kW



## Features

- **MODBUS** or **Analog 0-10V** monitoring and control, remote on/off and dimming
- Alarms
  - Temperature
  - Fan status
  - Lamp open / short / ground fault
- Monitoring
  - Lamp power / voltage / current
  - Fan status
- High Power Factor
- High efficiency
- Low inrush current
- Easy installation
- Cooling fans included (service part)

## Applications

- UV Disinfection
- UV Curing

## Ordering information

Description	Part number	Packaging
Lamp driver 12kW Modbus	9930442	1pcs / box (15pcs / pallet)

## Input

<b>Input voltage</b>	400 - 480 V <sub>ac</sub> (360 - 528 V <sub>ac</sub> ) 3PH + PE
<b>Input current</b>	18 A max.
<b>Input frequency</b>	50/60Hz ±3Hz
<b>Inrush current</b>	20 A max.
<b>Power Factor</b>	> 0.98 at 100% power
<b>Current THD</b>	< 10% typ.

## Output

<b>Lamp power</b>	11.7 kW max.
<b>Power accuracy</b>	< 5% (at 2.7 - 11.7 kW)
<b>Lamp voltage</b>	900 - 1460 V <sub>rms</sub>
<b>Lamp current</b>	< 10 A <sub>rms</sub>
<b>Output capacitance</b>	1.5 nF Maximum lamp wiring capacitance
<b>Dimming</b>	down to 5% (600W)
<b>Step response time</b>	100ms from 100% to 30% power
<b>Ignition voltage</b>	4 kVp max. 5 attempts of 275ms with 18s interval
<b>Frequency</b>	45 - 200 kHz

## Miscellaneous

<b>Efficiency</b>	> 95% typical
<b>Protections</b>	output open / short / overvoltage input under / overvoltage ground fault / temperature lamp EOL rectification
<b>Cooling</b>	Forced air cooling Field replaceable fan
<b>Operating temperature</b>	0° - 55° C / 32°F to 131°F
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL / cUL UL designation: NMPXL
<b>Weight</b>	31 kg / 68 lb
<b>Dimensions</b>	500 x 356 x 242 mm 19.7 x 14.0 x 9.53 inch
<b>Connectors</b>	Screw terminals
<b>IP rating</b>	IP20

Specifications subject to change without notice RH20240306

# Lamp Driver 24kW



## Features

- **MODBUS** or **Analog 0-10V** monitoring and control, remote on/off and dimming
- Alarms
  - Temperature
  - Fan status
  - Lamp open / short / ground fault
- Monitoring
  - Lamp power / voltage / current
  - Fan status
- High Power Factor
- High efficiency
- Low inrush current
- Easy installation
- Cooling fans included (service part)

## Applications

- UV Disinfection
- UV Curing

## Ordering information

Description	Part number	Packaging
Lamp driver 12kW Modbus	2x 9930442	1pcs / box (15pcs / pallet)

## Input

<b>Input voltage</b>	400 - 480 V <sub>ac</sub> (360 - 528 V <sub>ac</sub> ) 3PH + PE
<b>Input current</b>	36 A max.
<b>Input frequency</b>	50/60Hz ±3Hz
<b>Inrush current</b>	40 A max.
<b>Power Factor</b>	> 0.98 at 100% power
<b>Current THD</b>	< 10% typ.

## Output

<b>Lamp power</b>	23.4 kW max.
<b>Power accuracy</b>	< 5% (at 5.4 - 23.4 kW)
<b>Lamp voltage</b>	900 - 1460 V <sub>rms</sub>
<b>Lamp current</b>	< 20 A <sub>rms</sub>
<b>Output capacitance</b>	3.0 nF Maximum lamp wiring capacitance
<b>Dimming</b>	down to 23% (5.4kW)
<b>Step response time</b>	100ms from 100% to 30% power
<b>Ignition voltage</b>	4 kVp max. 5 attempts of 275ms with 18s interval
<b>Frequency</b>	45 - 200 kHz

## Miscellaneous

<b>Efficiency</b>	> 95% typical
<b>Protections</b>	output open / short / overvoltage input under / overvoltage ground fault / temperature lamp EOL rectification
<b>Cooling</b>	Forced air cooling Field replaceable fan
<b>Operating temperature</b>	0° - 55° C / 32°F to 131°F
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL / cUL UL designation: NMPXL
<b>Weight</b>	62 kg / 136 lb
<b>Dimensions</b>	500 x 356 x 484 mm 19.7 x 14.0 x 19.1 inch
<b>Connectors</b>	Screw terminals
<b>IP rating</b>	IP20

Specifications subject to change without notice RH20240306

# Lamp Driver 36kW



## Features

- **MODBUS** or **Analog 0-10V** monitoring and control, remote on/off and dimming
- Alarms
  - Temperature
  - Fan status
  - Lamp open / short / ground fault
- Monitoring
  - Lamp power / voltage / current
  - Fan status
- High Power Factor
- High efficiency
- Low inrush current
- Easy installation
- Cooling fans included (service part)

## Applications

- UV Disinfection
- UV Curing

## Ordering information

Description	Part number	Packaging
Lamp driver 12kW Modbus	3x 9930442	1pcs / box (15pcs / pallet)

## Input

<b>Input voltage</b>	400 - 480 V <sub>ac</sub> (360 - 528 V <sub>ac</sub> ) 3PH + PE
<b>Input current</b>	54 A max.
<b>Input frequency</b>	50/60Hz ±3Hz
<b>Inrush current</b>	60 A max.
<b>Power Factor</b>	> 0.98 at 100% power
<b>Current THD</b>	< 10% typ.

## Output

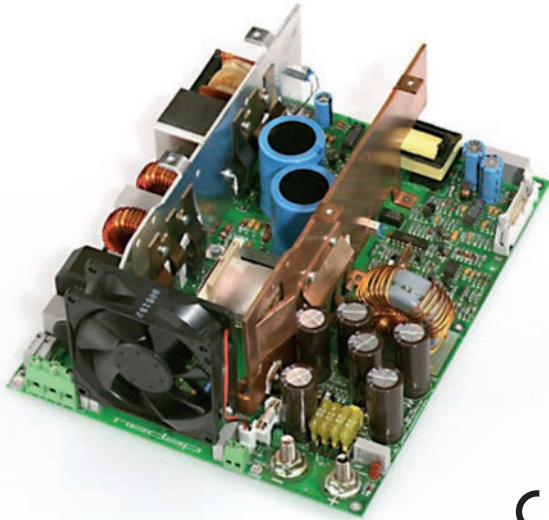
<b>Lamp power</b>	35.1 kW max.
<b>Power accuracy</b>	< 5% (at 8.1 - 35.1 kW)
<b>Lamp voltage</b>	900 - 1460 V <sub>rms</sub>
<b>Lamp current</b>	< 30 A <sub>rms</sub>
<b>Output capacitance</b>	4.5 nF Maximum lamp wiring capacitance
<b>Dimming</b>	down to 23% (8.1kW)
<b>Step response time</b>	100ms from 100% to 30% power
<b>Ignition voltage</b>	4 kVp max. 5 attempts of 275ms with 18s interval
<b>Frequency</b>	45 - 200 kHz

## Miscellaneous

<b>Efficiency</b>	> 95% typical
<b>Protections</b>	output open / short / overvoltage input under / overvoltage ground fault / temperature lamp EOL rectification
<b>Cooling</b>	Forced air cooling Field replaceable fan
<b>Operating temperature</b>	0° - 55° C / 32°F to 131°F
<b>Storage</b>	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
<b>Approvals</b>	CE / UL / cUL UL designation: NMPXL
<b>Weight</b>	93 kg / 205 lb
<b>Dimensions</b>	500 x 356 x 726 mm 19.7 x 14.0 x 28.6 inch
<b>Connectors</b>	Screw terminals
<b>IP rating</b>	IP20

Specifications subject to change without notice RH20240306

# LED Driver 1500W Open Frame



## Features

- Small size
- Remote on / off
- Auxiliary 12 V output
- Power Factor Corrector included
- Voltage or current control
- Voltage and current monitor output
- High efficiency
- Parallel operation (share) or redundancy option
- 750W universal input version available
- Optional housing

## Applications

- Power LED UV Curing
- Special Power LED Lighting

## Ordering information

Description	Part number	Packaging**
LED driver 30V/50A	9863281	
LED driver 60V/25A	9864563	4pcs / box
LED driver 120V/12.5A	9884106	

\*\*Other quantities available upon request

## Input

Input voltage	1 phase 187 - 265 Vac
Input frequency	50/60Hz ±3Hz
Input current	9 A max. at 200 V <sub>rms</sub>
Power Factor	> 0.98

## Output

Output power	1500W
Aux. power	12V - 0.5A
Power regulation	± 2.5 %
Output voltage	30V / 60V / 120V max.
Output current	50A / 25A / 12.5A max.

## Miscellaneous

Efficiency	> 85% at full load
Protections	overload overvoltage overcurrent short circuit temperature
Cooling	Forced air cooling
Operating temperature	0° to +40° C / 32°F to 104°F
Storage	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
Approvals	CE / cUL pending
Dimensions	250 x 209 x 100 mm 9.84 x 8.23 x 3.94 inch
Connector	input Screw terminal block output 2x M8

Specifications subject to change without notice RH20230721

# LED Driver 3000W Rack 19"



## Features

- Remote on / off
- Auxiliary 12V output
- Power Factor Corrector included
- Voltage or current control
- Voltage and current output monitor
- High efficiency.
- Parallel operation (share) or redundancy option
- 1500W universal input version available
- 19" rack mounting

## Applications

- Power LED UV Curing

## Ordering information

Description	Part number	Packaging
Led Driver 120V/25A	9981675	1pcs / box

## Input

Input voltage	1 phase 187 - 265 V <sub>rms</sub>
Input frequency.	50/60Hz ±3Hz
Input current	18 A max. at 200 V <sub>rms</sub>
Power Factor	>0. 98

## Output

Output power	3000W
Aux. power	12V - 0.5A
Power regulation	± 2.5 %
Output voltage	30V / 60V / 120V max.
Output current	100A / 50A / 25A max.

## Miscellaneous

Efficiency	>85% at full load
Protections	overload over-voltage over-current short circuit temperature
Cooling	Forced air cooling
Operating temperature	0° to + 40° C / 32°F to 104°F
Storage	-25°C to +70°C / -13°F to 158°F 20 - 95% non-condensing
Approvals	CE / cUL pending
Dimensions	440 x 310 x 135 mm 17.3 x 12.2 x 5.32 inch
Connectors	input Phoenix DFK - PC16 output Phoenix DFK - PC16 control Phoenix MC 1,5

Specifications subject to change without notice RH20230721

## TOOLS

# Nedap UV Tool



## Supported lamp drivers\*

Part number	Description
9560114	Lamp driver 800W
9988467	Lamp driver 2x1000W
9987700	Lamp driver Full Rack 2x1000W
9984607	Lamp driver 1-3.5kW Modbus
9985123	Lamp driver 1-3.5kW Modbus + Heatsink
9987126	Lamp driver 4kW
9987801	Lamp driver Full Rack 4kW
9930442	Lamp driver 12kW Modbus (from PMI ver. J)

\* Nedap is continuously improving the product line and more drivers will be supported in the future.

## Features

The Nedap UV Tool is a windows software tool to configure, control, monitor Nedap lamp drivers and lamps and perform firmware updates of lamp drivers.

## Compatible OS

The Nedap UV Tool supports Windows operating system (OS) versions 10, 8, 7, 98, ME, 2000 and XP.

Contact Nedap in case you are using OS Windows 11.

## Ordering information

Description	Part number	Packaging
Nedap UV Tool	9214917	1pcs / box

Specifications subject to change without notice RH20240306

# Notes



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Specifications subject to change without notice



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