

## POWER SUPPLY C7860/OEM POWER SUPPLY M7628

### FEATURES

- Compact
- High Cost Performance
- Designed based on EN/UL standard (M7628)  
The C7860 designed based on EN standard only.
- Constant Current Power Supply



▲ Left: C7860, Right: M7628

### SPECIFICATION

Parameter		C7860	M7628	Unit
Input	Input Voltage	90 to 115 / 180 to 250 (ac) <small>(Automatic)</small>	24 ± 2.4 (dc)	V
	Input Current		2	A Max.
Output	Output Voltage	With Load	80	V dc Typ.
		Without Load	160	V dc Min.
	Output Current	300 ± 15	mA	
	Current Fluctuation (p-p)	0.5	% Max.	
	Current Drift at + 25 °C	±0.1	%/h Max.	
	Heater Voltage	Output Voltage	See below	—
	Heater Current	Output Current	See below	—
	Warm-up Time		25 ± 5	s
	Trigger Voltage	600 ± 50	V peak	
Ambient Temperature	Operation	0 to +40	°C	
	Storage	-40 to +60	°C	
Cooling		—	20 CFM of Forced Air Cooling	—
Dimensions (W × H × D)		113 × 122 × 220	100 × 118 × 36.2	mm
Weight		2.7	0.17	kg

### HEATER VOLTAGE AND CURRENT

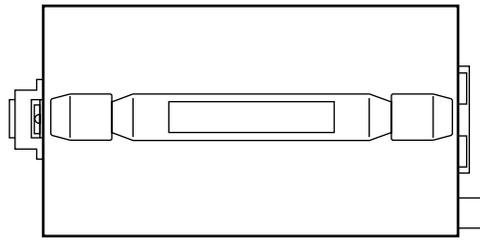
Type Number	Warm-up		Operation		Applicable Lamps
	Voltage (V dc)	Current (A dc)	Voltage (V dc)	Current (A dc)	
C7860/M7628-2510	2.5 ± 0.15	4	1 ± 0.05	1.8	L6565, L7293, L7303, L6999, L7307, L7174
C7860/M7628-2517 <sup>(A)</sup>	2.5 ± 0.15	4	1.7 ± 0.1	3.3	L7297, L7298, L6303, L6304, L7304, L7306
C7860/M7628-3000 <sup>(A)</sup>	3 ± 0.15	5	0	0	L6566, L6305, L6306
C7860/M7628-1035 <sup>(A)</sup>	10 ± 0.5	0.8	3.5 ± 0.2	0.3	L7291, L7294, L6307, L6308, L7292
C7860/M7628-1070	10 ± 0.5	1.2	7 ± 0.35	1	L7296, L7295, L6309, L6310
C7860/M7628-1555 <sup>(A)</sup>	15 ± 0.75	0.5	5.5 ± 0.3	0.3	L6311, L6312

NOTE: (A) C7860 series are manufactured only when the order is placed.

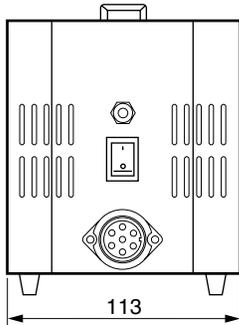
# DEUTERIUM LAMP POWER SUPPLY C7860/M7628 SERIES

## ■ Dimensional Outline (Unit: mm)

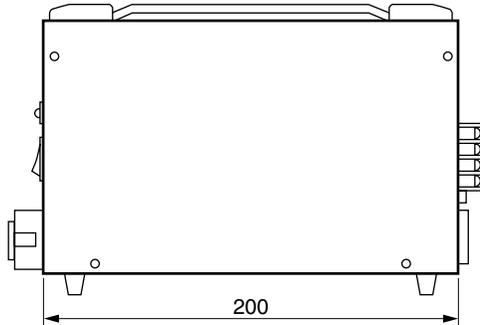
C7860



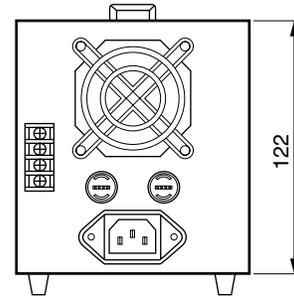
TOP VIEW



FRONT VIEW



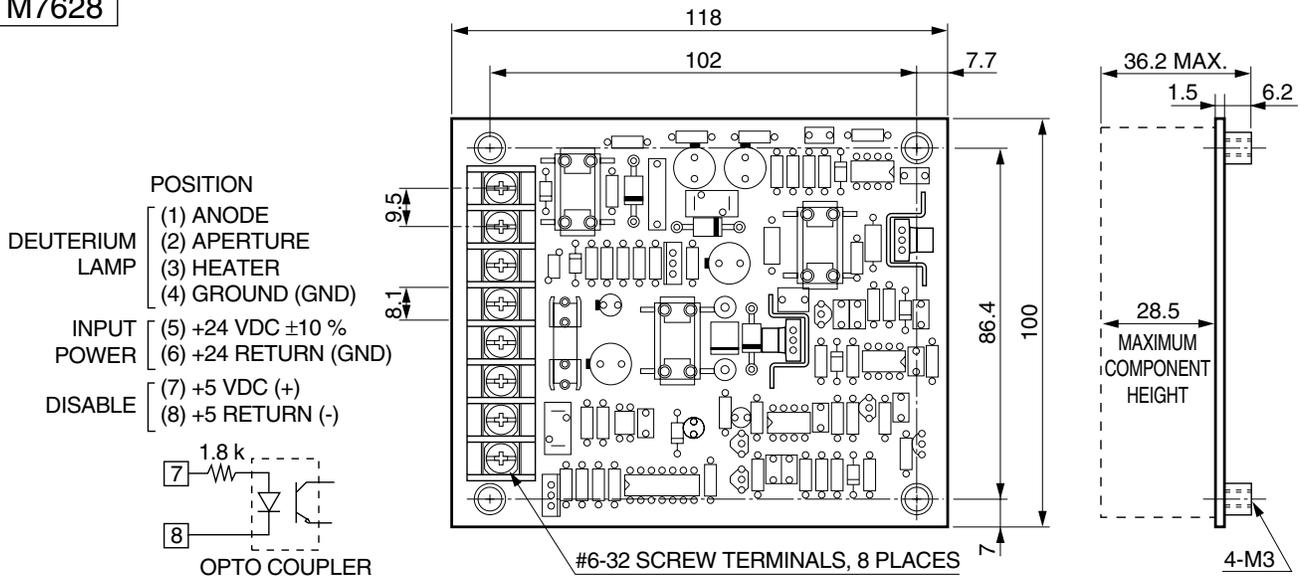
SIDE VIEW



REAR VIEW

TL50A0061EA

M7628



DISABLE INPUT CIRCUIT

DISABLE FUNCTION

DISABLE = +5 V BETWEEN PINS 7 & 8 POLARITY AS INDICATED, LOAD = 2 mA  
 ENABLE = 0 V BETWEEN PINS 7 & 8 OR PINS 7 & 8 OPEN

TL50A0057EA

## Precautions When Using Deuterium Lamps

1. High voltage is used to operate the lamp. Use extreme caution to prevent electric shocks.
2. The guarantee period will be one year after shipment. The area of guarantee is limited to replacement of the faulty lamp. Faults resulting from natural disasters and incorrect usage will also be excluded from guarantee.

CE These product conforms to SAFETY/ EN61010-1 of the European Union.

UL The M7628 is recognized upon UL 1950 (File No.191652).

## DEUTERIUM LAMP HOUSING E8039

This lamp housing was designed to allow easy operation of deuterium lamps such as L2D2 lamps and provide full lamp performance. It accommodates a lamp with a flange so that no optical alignment is required. The built-in interlock and forced-air cooling functions ensure high safety. Collimating lenses and fiber guide adaptors are also available as easy-to-replace options, which easily attach to the light exit and allow obtaining the desired light beam.



### FEATURES

#### ■ Compact

Compact case allows easy handling and installation.

#### ■ High Stability

Lamp housing design allows the L2D2 lamp to fully achieve its highly stable operation (fluctuation(p-p) within 0.05%).

#### ■ High Safety, Interlock Function

The interlock function turns off the lamp if the cover comes off. The surface temperature of the lamp housing is maintained below +50 °C.

#### ■ No Optical Alignment Required

Designed to accommodate an L2D2 lamp with a flange which eliminates arc point shift. Absolutely no optical alignment is required over the life of the lamp or when replacing the lamp.

#### ■ Easy Replacement of Optional Parts

As easy-to-replace options, collimating lenses and fiber guide adaptors that easily attach to the light exit are available, allowing you to obtain the desired light beam.

### APPLICATIONS

#### ■ Light sources in various experiments

#### ■ Light sources in spectrophotometry

### SPECIFICATION

	Parameter	Description/Value	Unit
Lamp	Suitable Lamp	L2D2 L6999-51	—
	Lamp Power Consumption	Approx. 30	W
	Spectral Distribution	185 to 400	nm
	Anode Current	80	mA dc
	Tube Drop Voltage	300	V dc Typ.
Output Window	Material	Fused Silica	—
	Dimension	φ10	mm
	Optical Axis Height	72 (include feet height)	mm
Cooling Function		Forced Air Cooling (Built-in cooling fan)	—
Operating Ambient Temperature		0 to +40	°C
Recommended Operating Temperature		+5 to +35	°C
Operating Humidity		30 to 90	%
Dimensions (W × H × D)		120 × 107 × 140 (exclude projection part)	mm
Weight		Approx. 2.3	kg
Suitable Power Supply Type No.		C7860-2510 <sup>(A)</sup>	—

**NOTE:** <sup>(A)</sup> A8087 cable should be necessary for connection between C7860 series and E8039.

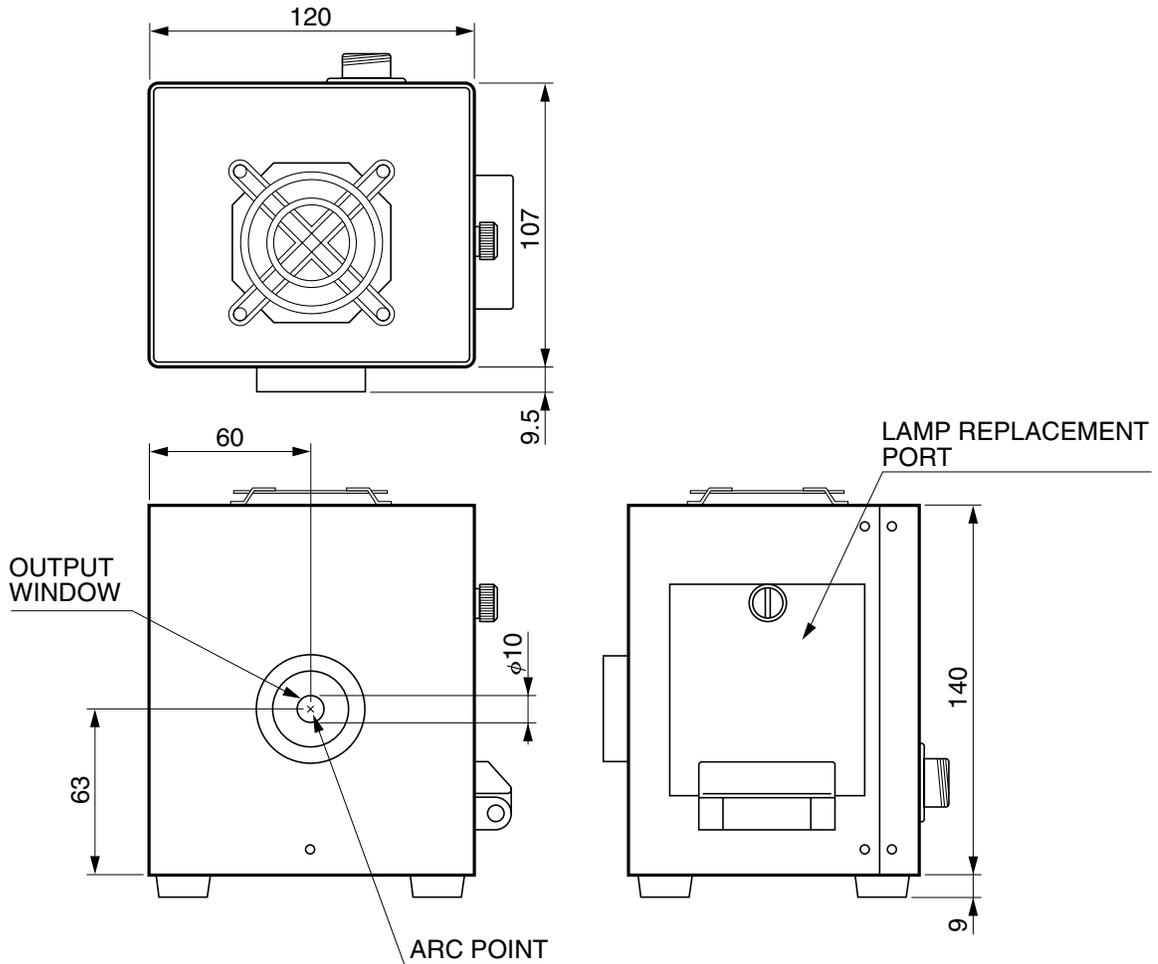
**Optional Parts** SMA Fiber Guide Adaptor with Lens (for thin diameter fiber)

Collimating Lens (Material: Fused Silica, Dimension: φ10 mm, Focal Point: 20 mm, Light output: collimating)

Power Supply C7860 series, Connection cable A8087 and Lamp L6999-51 are optional.

# DEUTERIUM LAMP HOUSING E8039

## ■ Dimensional Outlines (Unit: mm)



TLSO A0062EA

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# HAMAMATSU

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