POWER SUPPLY

POWER SUPPLY

FOR XENON LAMP, **MERCURY-XENON LAMP**

C12122 SERIES

OVERVIEW

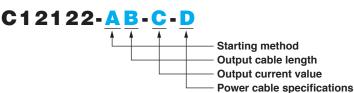
The C12122 series is a compact regulated power supply specifically designed to extract the maximum performance from Hamamatsu xenon lamps and mercury-xenon lamps.

The C12122 power supply also supports external control and conforms to safety standards (CE and PSE). The C12122 should be used in combination with a Hamamatsu C14632 starter or E7536 series lamp housing.



Left: C12122 series, Right: Starter C14632 (not included)

TYPE NUMBER GUIDE



mode is suitable for laboratory experiments.

B: Output cable length

Suffix	Output cable length (m)
20	2
50	5

	57	
Power cable specifications	70	
	75	Г
Description	80	Г
When the power switch is ON, pressing the lamp switch lights the lamp. This	85	Ī

Suffix	Output current (A)			
54	5.4			
55	5.5			
57	5.7			
70	7.0			
75	7.5			
80	8.0			
85	8.5			

C: Output current value

D: Power cable specifications

Suffix	Specifications					
C2	For Japan and US					
C3	For EU					
C5	For UK					

COMPATIBLE LAMPS

•XENON LAMP

A: Starting method

Starting method

Manual

Auto

Suffix

0

1

Type No	Output ourropt (A)	Compatible lamps				
Type No.	Output current (A)	Type No.				
C12122-	5.4	L2174/-01/-02, L14285-01/-02				
C1212257	5.7	L10725/-01/-02				
C12122-	7.0	L11307				
C12122-	7.5	L2175				
C12122-□□□-85-□□	8.5	L2273, L14286, L11033, L14287				

The lamp automatically lights up at the same time the power switch is turned on.

This mode is suitable for production lines or installation into equipment.

•MERCURY-XENON LAMP

Type No.	Output current (A)	Compatible lamps				
Type No.	Output current (A)	Type No.				
C12122-□□□-54-□□	5.4	L2481/-01/-02				
C1212255	5.5	L2422/-01/-02, L8029/-01				
C12122-□□□-75-□□	7.5	L16701				
C12122-ППП-80-ПП	8.0	L2423				



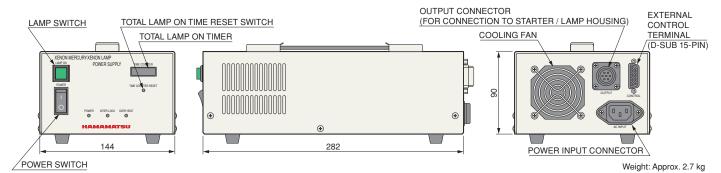
SPECIFICATIONS

Par	ameter		Description / Value						Unit		
Input voltage (A	C)		100 V to 240 V, single phase 50 Hz/60 Hz					_			
Auxiliary power	(DC)		24 ±2 V, 0.3 A max.								
Output current (DC) ^①		3.5	5.4	5.5	5.7	7.0	7.5	8.0	8.5	Α
Ripple current (p	o-p)	Max.	0.3	0.3 0.2 2							%
Drift		Max.				±C).1				%/h
Trigger voltage output					20 to	o 30				kV	
Power consump	tion	Max.				34	10				VA
Cooling method					F	orced air co	ooling by f	an			
Operating temper	erature range		0 to +40				°C				
Storage tempera	ature range		-10 to +65 (no freezing)				°C				
Operating humidity range		35 % to 85 % (no condensation)									
Storage humidity	y range		Below 85 % (no condensation)					_			
Applicable standards EMC standards Safety standards			IEC61326-1 Emission limits: CISPR 11 Group 1 Class A Immunity requirements: Table 2					_			
			IEC 61010-1/A1						_		

NOTE: ①This is set at the factory prior to shipment.

②At the rated input and output

DIMENSIONAL OUTLINES (Unit: mm)



External control terminal (D-sub 15-pin) connection

Pin No.	Signal	Pin No.	Signal
1	Auto start setting		GND.
2	Lamp ON	10	GND.
3	Lamp OFF	11	No connection
4	Overheat signal output	12	No connection
5	Lamp ON signal output	13	No connection
6	Interlock signal output	14	No connection
7	Interlock signal output	15	No connection
8	Auxiliary power (+24 V)		

ACCESSORIES

●Power cable (2 m)

Output cable

^{*} Specifications are determined at an operating temperature of 23 ±5 °C after 30 min preheating.

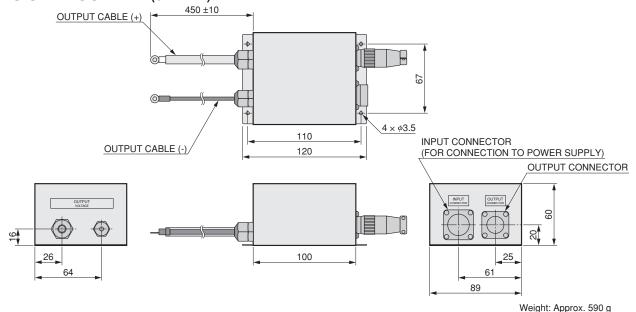
RELATED PRODUCTS

■STARTER C14632

OVERVIEW

The C14632 is a separate starter that rapidly generates a high voltage for low-current power supplies. The trigger voltage output is set to 20 kV to 30 kV and the output cables are pre-terminated with a ring terminal.

●DIMENSIONAL OUTLINE (Unit: mm)

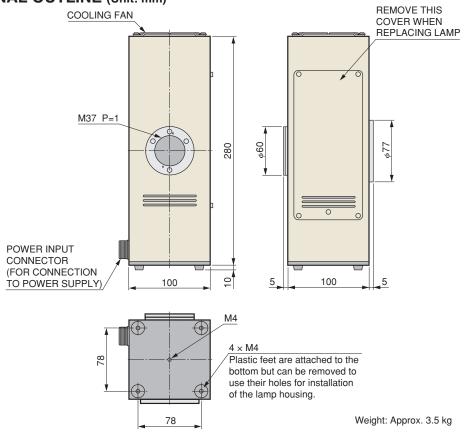


■LAMP HOUSING E7536

OVERVIEW

The E7536 is an easy-to-use high-precision lamp housing. It contains a reflecting mirror and output lens (synthetic silica) to provide high light output. It also includes an interlock function, starter and cooling fan to ensure high safety. The optical axis can be aligned with an adjustment screw on the lamp housing.

●DIMENSIONAL OUTLINE (Unit: mm)



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