POWER SUPPLY

POWER SUPPLY

FOR XENON LAMP, MERCURY-XENON LAMP

C12122 SERIES

OVERVIEW

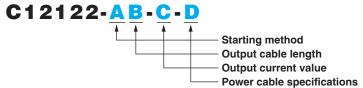
The C12122 series is a compact regulated power supply specifically designed to extract the maximum performance from Hamamatsu xenon lamps and mercury-xenon lamps.

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



B: Output cable length

Suffix	Output cable length (m)
20	2
31	3.15
50	5

Suffix	Output current (A)
35	3.5
54	5.4
55	5.5
57	5.7
70	7.0

C: Output current value

A: Starting method

	Suffix	Starting method	Description				
0		Manual	When the power switch is ON, pressing the lamp switch lights the lamp. This				
	mode is suitable for laboratory experiments.						
4		Auto	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						

D: Power cable specifications

8.0

80

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

SUITABLE LAMPS

OSUPER-QUIET XENON LAMP

Type No	Output ourrent (A)	Suitable lamps			
Type No.	Output current (A)	Lamp rating (W)	Type No.		
C12122 35	3.5	35	L2173, L14284		
C12122 54-	5.4	75	L2174 / -01 / -02, L14285-01 / -02		
C12122-	5.7	75 (Long life type)	L10725 / -01 / -02		
C12122 70 70-	7.0	100	L11307		
C12122-□□□-75-□□	7.5	150	L2175		
C12122	8.5	150 (GS type ¹⁾)	L2273, L14286, L11033, L14287		

NOTE: 1)Short gap type

OSUPER-QUIET MERCURY-XENON LAMP

Toma Ma	Ott	Suitable lamps			
Type No.	Output current (A)	Lamp rating (W)	Type No.		
C12122-□□□-35-□□	3.5	50	L2421		
C12122-□□□-54-□□	5.4	75	L2481 / -01 / -02		
C12122-□□□-55-□□	5.5	100	L2422 / -01 / -02, L8029 / -01		
C12122-□□□-75-□□	7.5	150	L2482		
C12122-□□□-80-□□	8.0	200	L2423		
C12122-	8.5	250	1.8706		

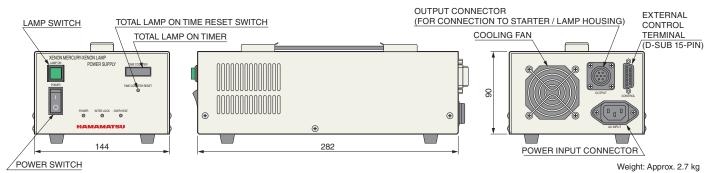
SPECIFICATIONS

Parameter			Description / Value						Unit		
Input voltage (AC)			100 V to 240 V, single phase 50 Hz/60 Hz								
Auxiliary power	r (DC)	Max.	24 V, 0.3 A					_			
Output current	(DC) ^①		3.5	5.4	5.5	5.7	7.0	7.5	8.0	8.5	Α
Ripple current	(p-p)	Max.	0.3	0.3						%	
Drift		Max.				±C).1				%/h
Trigger voltage	output		20 to 30					kV			
Power consum	ption	Max.	340						VA		
Cooling method		Forced air cooling by fan						_			
Operating temp	perature range		0 to +40					°C			
Storage tempe	rature range		-10 to +65 (no condensation)					°C			
Operating humidity range			35 % to 85 % (no condensation)						_		
Storage humidity range			Below 85 % (no condensation)					_			
Applicable	EMC standard	ds	IEC61326-1: 2013 Group 1 Class A -								
standards	Safety standa	rds	IEC61010-1: 2010								

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	9	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 °C ± 5 °C after 30 minute preheating.

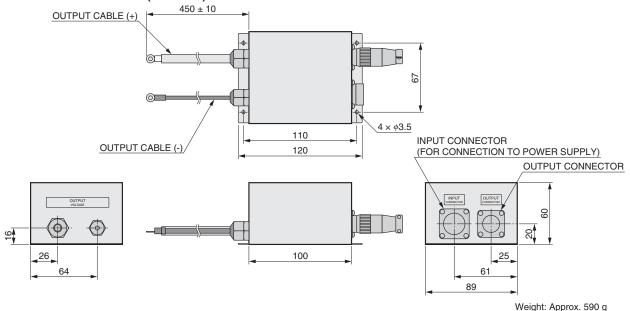
RELATED PRODUCTS

■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)

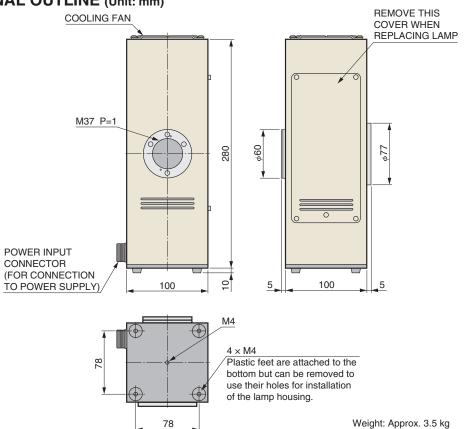


■LAMP HOUSING E7536

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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