

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

M69911-XXXX

150 Long Beach Boulevard
Stratford, CT 06615
Phone: (203) 377-8282
(800) 714-5393
Fax: (203) 378-2457
E-MAIL: oriel.sales@newport .com

POWER SUPPLY

MODEL 69911-XXXX

USER MANUAL

Please read these instructions completely before operating this equipment. The specification and operating instructions apply only to the model(s) covered by this manual. If there are any questions or problems regarding the use of this equipment, please contact Newport or the representative from whom this equipment was purchased.

Rev: 04.21.11

TABLE OF CONTENTS

I INTRODUCTION 3
I.1 DESCRIPTION / FEATURES 3
I.2 ORDERING INFORMATION 4
I.3 69911-XXXX REPLACEMENT ITEMS 5
II II. SAFETY NOTES 6
II.1 UV HAZARDS 6
II.2 ELECTRICAL HAZARDS 6
II.3 FIRE HAZARDS 6
II.4 KEEPING THE LAMP IN GOOD CONDITION 6
III USING THE POWER SUPPLY 7
III.1 REAR PANEL CONNECTIONS 7
III.2 FRONT PANEL CONTROLS AND DISPLAYS 9
III.3 OPERATING THE LAMP 9
III.4 TROUBLESHOOTING 10
IV SPECIFICATIONS 11
V DECLARATION OF CONFORMITY 12
VI WARRANTY AND RETURNS 13

I INTRODUCTION

I.1 DESCRIPTION / FEATURES

The Newport model 69911-XXXX power supply was designed to meet the needs of a regulated source of power for proper operation of Mercury Xenon, and Xenon ARC light sources. The 69911-XXXX provides constant power operation of these sources of radiation, which is usually, required whenever a radiometric measurement is being made or whenever highly stable light output is needed.

Features include:

- Fixed factory preset output.
- Auto start to preset power level when AC is applied.
- Safety interlock connector provides a way of safeguarding against accidental exposure to UV light when used with a Newport's lamp housing.

The last four digits of the model number designate the factory preset power level for the power supply. Table 1 lists the possible combinations.

Model Number	Preset Power Level
69911-0200	200 Watts
69911-0300	300 Watts
69911-0500	500 Watts

Table 1

This power level is what will be delivered to the lamp as measured at the rear terminal of the power supply. Table 2 lists the different types of lamps available for this power supply depending on its configured power level. Ensure that the proper interconnect cable is used to drive the lamp, as mercury lamps require the voltage polarity be reversed from xenon or mercury xenon. This is done with the 70050 or 70051 cable. This supply should only be used with the 70050 cable.

I.2 ORDERING INFORMATION

Arc Lamp	Lamp Description	Power Range Watts	Typical Voltage VDC	Typical Current ADC	Average Life (Hours)	Lamp Housing [1]	Lamp Socket Adapter
MERCURY XENON LAMPS							
6291	200W HgXe	160 - 220	20 - 25	8 - 9.5	1000	50W-500W Research Housing [1]	66152
6292	OF 200W HgXe	160 - 220	20 - 25	8 - 9.5	1000		66152
66142	500W HgXe	**400 - 550**	26	19	600		66159
XENON LAMPS							
6258	OF 300W Xe	240 - 330	20	15	900	**50W-500W Research Housing** [1]	66160
6259	300W Xe	240 - 330	20	15	900		66160
6285	500W Hg	400 - 550	76	6.6	800		66162

Table 2 Arc lamps for Model 69911-XXXX power supply

[1] Models 66901-66905, 66912 (200W Lamps only), 67001, 67003, 67005, 67006. The difference between these housings is the condenser lens. Once you have established which condenser is most suitable for your applications, contact a Newport sales representative / engineer.

Please refer to the solar simulator manual for lamp adaptors and operation conditions when using the power supply in these systems.

I.3 69911-XXXX REPLACEMENT ITEMS

International

Model	Item Description
70010	Line Cord International Color Code
[1]88010720	Plug (Great Britain, Ireland) 13A, 250VAC
[1]88010801	Plug (Continental Europe) 16A, 250 VAC
[1]88010732	Plug (Switzerland) 10A, 250VAC
70050	Xe, HgXe Lamp interconnect cable
70051	Hg Lamp interconnect cable

Table 3

[1] Contact PANEL COMPONENTS CORPORATION
P.O.Box 115, Oskaloosa, IA 52577 (USA)
(515) 673-5000

II II. SAFETY NOTES

II.1 UV HAZARDS

- ***Our ARC Lamps produce considerable ultraviolet and infrared radiation. Avoid excessive exposure of the eyes or skin to radiation from these lamps. Protective eyewear, gloves, and UV Warning Signs are available from Newport.***

49125	UV Safety Spectacles
49126	UV Safety Goggles
49121	Protective Gloves
79006	Adhesive Backed Warning Signs

II.2 ELECTRICAL HAZARDS

- ***Make all connections to or from the power supply with the power off. There may be up to 200 volts present at the output terminals; this could be dangerous if care is not exercised when the power supply is on.***

- ***Do not use the power supply without its cover in place. Lethal voltages are present inside.***

II.3 FIRE HAZARDS

- ***Arc lamps are extremely hot during operation, and for several minutes after being shut off. Keep flammable objects away from the lamp and lamp housing.***

- ***Newport Research (Fan-Cooled) Housings are equipped with a condenser lens. The re-focused output of this lens can cause ignition of flammable targets (ex: wooden walls, certain chemicals).***

II.4 KEEPING THE LAMP IN GOOD CONDITION

- ***Never touch the lamp envelope or element with uncovered fingers, even during installation, or its lifetime and performance can be negatively affected.***

- ***Do not run the lamp more than 10% above its current or power rating. Source lifetime will decrease dramatically at higher operating point.***

III USING THE POWER SUPPLY

III.1 REAR PANEL CONNECTIONS

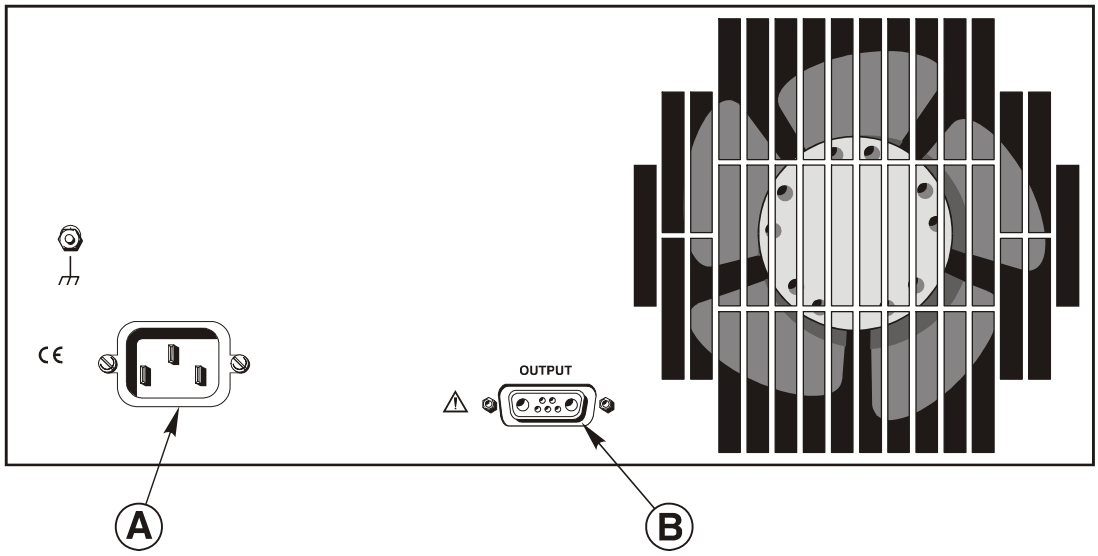


Figure 1

AC MAINS CONNECTION

NOTE: The Recommended Line Voltage for the 69911-XXXX is 95-264 VAC, 50/60 Hz.

Verify that the front panel power switch is in the off position, and then connect the provided AC cable between the IEC style socket (A in Figure 1) on the rear panel and the wall outlet.

LAMP CONNECTIONS

With the power supply off, connect the cables from the Newport lamp housing/igniter to the OUTPUT connector, (B in Figure 1), which provides all the signals necessary to interface this power supply to Newport lamp housing and igniter.

Table 4 gives signal information at the rear terminals of the power supply. Please note that the 70051 cable has A1 and A2 pins reversed in the cable assembly.

Table 4

PIN	SIGNAL	
A1	LAMP (-)	Connection to lamp negative terminal
A2	LAMP (+)	Connection to lamp positive terminal
1	GND	Ground for interlock (fan/elapsed time indicator if in housing)
2	INTERLOCK (+)	Connected to +12V to satisfy interlock
3	+12V	Dc voltage for interlock (fan/elapsed time indicator if in housing)
4	IGNITOR DRIVE	Momentary ground connection to fire Newport igniter
5	INTERLOCK (-)	Connected to GND to satisfy interlock

MATING CONNECTOR:
Body: ITT# DAM-7W2P-K87 (includes pins 1-5)
Pins: ITT# DM 53745-1 (requires 2 per connector, A1 and A2)
Backshell: standard 15-pin D-SUB

INTERLOCK

The 69911-XXXX has a safety interlock feature, which must be satisfied before the power supply output will activate and which, if broken during operation, will disable the power supply.

When connected to a Newport Research housing, cables must be attached, the housing must be closed properly and any over temperature sensor satisfied for the power supply to drive the lamp.

The cable used for the other applications includes 2 pairs of interlock wires in each cable, which are shorted together to represent a satisfied interlock condition. If an interlock is desired with these configurations, separate the brown and blue interlock wires at the lamp/element end of the cable and tie them into the interlock system. A contact closure is required to satisfy the interlock.

III.2 FRONT PANEL CONTROLS AND DISPLAYS



Figure 2

Front Panel

POWER

This is the AC mains power switch and circuit breaker. In the “ON” position, ac power will be switched into the main circuitry of the power supply, (A in Figure 2). The output will turn on and apply the ignite signal to the igniter.

III.3 OPERATING THE LAMP

Turn on the power supply. The igniter will fire until the lamp starts at the preset level. It is advised to wait at least 15 –30 minutes for the lamp to stabilize at its power level before using the output from the lamp. To turn off the lamp, turn off the power switch on the front panel of the power supply. Should the lamp fail to ignite refer to the troubleshooting section III.4.

III.4 TROUBLESHOOTING

This chart provides the basic troubleshooting information for the Newport Model 69911-XXXX power supply when used with a Newport 669XX series arc lamp housing. Contact a Newport sales engineer or your local representative if more information is required.

Table 5

Symptom	Action
Power supply does not turn on, e.g. Fan not turning	Check MAINS CORD CONNECTION • Front panel circuit breaker on • AC power at wall outlet
Lamp doesn't start but fan on supply is turning.	Check • Ticking sound heard from top of lamp housing during ignition cycle approximately once per second • Check lamp connection and polarity. A lamp installed upside down or with reversed polarity should be removed and replaced immediately. • Cycle power and try ignition again. • Check hours on lamp. It may be at end of life and typically will be difficult to start. • Try a new lamp • If fault repeats contact Newport for RMA information.

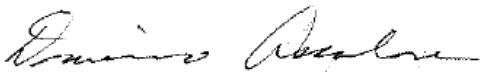
IV SPECIFICATIONS

AC Mains Input:	95 - 132 VAC/ 8.0A max 190 - 264 VAC/4.0A max 50/60 Hz
DC Current Output:	Depends on load, 6.5 – 24.0A
DC Power Output:	Factory Preset at 200, 300 or 500W
DC Voltage Output:	Load dependent, 200V max open circuit
Light Output Ripple:	Typically 0.5% R.M.S.
Line / Load Regulation:	± 0.05%
Operating Temperature:	10 - 40°C
Weight:	20 lbs

V DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY

Manufacturer's name:	Newport Corporation
Manufacturer's address:	150 Long Beach Boulevard Stratford, CT 06615 USA
Declares that the product:	
Product Name:	Arc Lamps Power Supplies
Model Numbers:	69911-0200, 69911-0300, 69911-0500
Type of equipment:	Electrical equipment for measurement, control and laboratory use in industrial locations
conforms to the following Product Specifications:	
Safety:	EN 61010-1:2010
EMC:	EN 61326-1:2006 +cor:2008 +cor:2010
complies with the following Directives:	
	2004/108/EC EMC Directive
	2006/95/EC Low Voltage Directive
and accordingly, carries the CE mark **CE mark affixed:**	Beaune; 12/01/2010



Domenic Assalone

Site Manager, Oriel Products Division

150 Long Beach Boulevard

Stratford, CT 06615 USA



Bruno Rety Authorized to compile technical documentation

Group Director, PPT Instrument and Motion Europe

Micro-Controle Division of Newport Corporation

Zone Industrielle

45340 Beaune la Rolande, France

VI WARRANTY AND RETURNS

Newport warrants that all goods described in this manual (except consumables such as lamps, bulbs, filters, ellipses, etc.) shall be free from defects in material and workmanship. Such defects become apparent within the following period:

1. All products described here, except spare parts: one (1) year or 3000 hours of operation, whichever comes first, after delivery of the goods to the buyer.
2. Spare parts: ninety (90) days after delivery of goods to the buyer.

Newport's liability under this warranty is limited to the adjustment, repair and/or replacement of the defective part(s). During the above listed warranty period, Newport shall provide all materials to accomplish the repaired adjustment, repair or replacement. Newport shall provide the labor required during the above listed warranty period to adjust, repair and/or replace the defective goods at no cost to the buyer ONLY IF the defective goods are returned, freight prepaid, to a Newport designated facility. If goods are not returned to Newport, and the user chooses to have repairs made at their premises, Newport shall provide labor for field adjustment, repair and/or replacement at prevailing rates for field service, on a portal-to-portal basis.

Newport shall be relieved of all obligations and liability under this warranty of:

1. The user operates the device with any accessory, equipment or part not specifically approved or manufactured or specified by Newport unless buyer furnishes reasonable evidence that such installations were not the cause of the defect. This provision shall not apply to any accessory, equipment or part which does not affect the safe operation of the device.
2. The goods are not operated or maintained in accordance with Newport's instructions and specifications.
3. The goods have been repaired, altered or modified by other than authorized Newport personnel.
4. Buyer does not return the defective goods, freight prepaid, to a Newport facility within the applicable warranty period.

IT IS EXPRESSLY AGREED THAT THIS WARRANTY SHALL REPLACE ALL WARRANTIES OF FITNESS AND MERCHANTABILITY. BUYER HEREBY WAIVES ALL OTHER WARRANTIES, GUARANTEES, CONDITIONS OR LIABILITIES, EXPRESSED OR IMPLIED, ARRISING BY LAW OR OTHERWISE, WHETHER OR NOT OCCASIONED BY NEWPORT'S NEGLIGENCE.

This warranty shall not be extended, altered or varied except by a written document signed by both parties. If any portion of this agreement is invalidated, the remainder of the agreement shall remain in full force and effect.

CONSEQUENTIAL DAMAGES

Newport shall not be responsible for consequential damages resulting from misfunctions or malfunctions of the goods described in this manual. Newport's total responsibility is limited to repairing or replacing the misfunctioning or malfunctioning goods under the terms and conditions of the above described warranty.

INSURANCE

Persons receiving goods for demonstrations, demo loan, temporary use or in any manner in which title is not transferred from Newport, shall assume full responsibility for any and all damage while in their care, custody and control. If damage occurs, unrelated to the proper and warranted use and performance of the goods, recipient of the goods accepts full responsibility for restoring the goods to their condition upon original delivery, and for assuming all costs and charges.

RETURNS

Before returning equipment to Newport for repair, please call the Customer Service Department at (203) 377-8282. Have your purchase order number available before calling Newport. The Customer Service Representative will give you a Return Material Authorization number (RMA). Having an RMA will shorten the time required for repair, because it ensures that your equipment will be properly processed. Write the RMA on the returned equipment's box. Equipment returned without a RMA may be rejected by the Newport Receiving Department. Equipment returned under warranty will be returned with no charge for the repair or shipping. Newport will notify you of any repairs not covered by the warranty, with the cost of the repair, before starting the work.

Please return equipment in the original (or equivalent) packaging. You will be responsible for damage incurred from inadequate packaging, if the original packaging is not used.

Include the cables, connector caps and antistatic materials sent and/or used with the equipment, so that Newport can verify correct operation of these accessories.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP