



February 21, 2003

1500W Programmable DC Power Supply in 1U

Highest power density in the world

Flexibility in ATE, Industrial and Communications applications

The launch of 19" 1U package Genesys™

**Line up the half-width size, 1U in advanced
Loading Active Power Factor Correction
Worldwide safety agency approvals**

DENSEI-LAMBDA launched the 1U rack-mounted programmable DC Power Supply "Genesys" GEN series 750W and 1500W for semiconductor industry, liquid crystal industry, and the next generation automobile industry.

1. Background of Market

The programmable power supply is widely used in the semiconductor industry, laboratories, etc. DENSEI-LAMBDA began the launch of the programmable power supply ZUP series three years ago. On the other hand, as for the programmable power supply market, the application is becoming common in PDP, liquid crystal, and organic EL manufacture systems from the first manufacture systems, such as semiconductor memory and CPU. In the automobile industry, new markets such as conversion of 36V battery voltage and an electric vehicle are also on the horizon. As these production bases are quickly changing, the necessity has arisen to eye the global market.

With these market changes, also in the programmable power supply area, the demand has arisen for compact size, increased power, correspondence to the entire world and a highly precise control function, etc.

2. Features of New products

The "Genesys": GEN series, which is currently being launched, consists of 1500W and 750W.

The rack mount is the same form of 19 inches, height was fitted in 1U (44.45mm). Especially, the 1500W at this size provides a capacity rise of identical class ratio n 25%, and it is the first of its kind in the world. The half-width size 750W type is a product not conventionally of 1U size, and will be launched in May this year. In the input characteristics, power factor 0.99 is achieved with active power factor correction which is electrical environment friendly. In the safety standard, CE Marking, UL, etc. are applied and considered for export restrictions.

Industrial property of six affairs is under application.

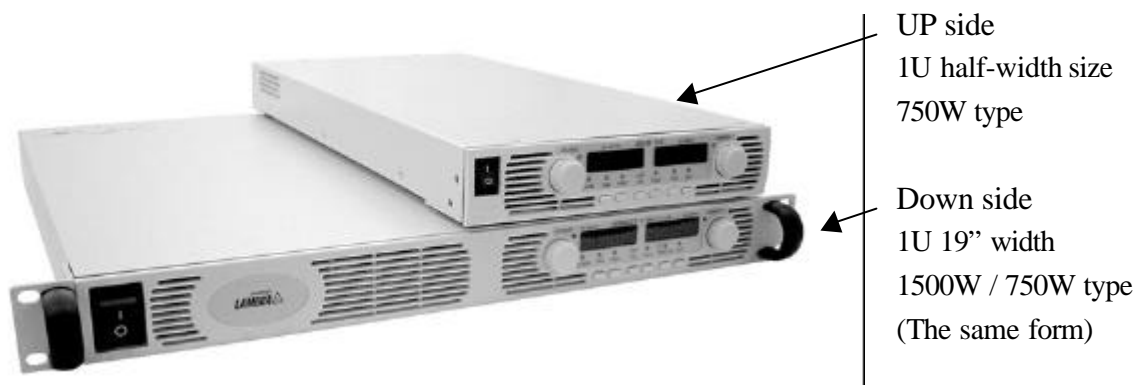
■ Products Feature

- The highest power density offered in 1U size. 1500W. 25% Power up
- 750W half-width size, possible loading two set in 1U space.
- Continuous universal input voltage from AC85-265V, High power factor 0.99
- World wide Safety agency approvals CE Mark for LVD, EMC Regulation, UL and EN
- High resolution 16bit ADCs & DACs. 4digit display the output voltage and output current

3. Sales strategy

DENSEI-LAMBDA has always sold the programmable power supply, and the "Genesys", which is presently being launched, is added to the lineup. Sales promotion is being strengthened with further existing specified agents. Target market is the semiconductor, liquid crystal, organic EL, and the automobile related markets. The sales target for the next three years is 1 billion-yen. Future plans: 750W half-width size will be launched this May. It is possible to load two sets in 1U space and the design meets the demands of a wide variety of applications, which enhances the strength of more lineup.

4. Outline of Genesys GEN series



5. Genesys : GEN series Specifications

Rated output voltage[V]*1		6	8	12.5	20	30	40	60	80	100	150	300	600
Rated output current[A]*1	750W	100	90	60	38	25	19	12.5	9.5	7.5	5	2.5	1.3
	1500W	200	180	120	76	50	38	25	19	15	10	5	2.6
Input voltage range		AC85-265V continuous (47-63Hz)											
Power Factor		0.99 (Active Power Factor Correction)											
Dimensions		W:422.8mm × H:43.6mm × D:432.8mm											
Weight		750W: 7kg 1500W: 8.5kg											
Interface		Built in RS232/RS485 interface (GPIB: Optional)											
Safety standard		CE Marking (LVD, EMC Regulation) UL60950 EN60950											
Catalog price		¥177,000 to ¥193,000 for 750W type ¥270,000 to ¥ 300,000 for 1500W type											

Note *1: Trim range of output voltage and output current is 0 to rated output voltage and output current value.

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[Background materials]

What is the Programmable Power Supply

Our major products : A switching power supply which is part of the constant voltage power supply, provides a stable output on the defined voltage. On the other hand, the programmable power supply is a power supply in which the output voltage and output current can be changed to the setting value by manual operation or automatic programming. (ex 0A 10A, 0V 600V)

Applications

It is widely used in the following research and experiments, evaluation measurement of parts and products, etc.

1. Semiconductor components (CPU, Memory, TFT, EL, HDD) Burn in and Aging

In order to check the operation in manufacture process and sort out the fault article, power supply provide a minimum and a maximum output power according to each device and a margin test is performed.

2. Pure water treatment

Pure water refining used for washing of a semiconductor etc. use electrolysis and constant current is given to the its electrode.

3. Chemicals treatment of aluminum electrolytic capacitors

In the manufacture process of an aluminum thin film, an oxide with electric insulation is formed on the aluminum surface by electrolyzing in electrolysis liquid.

4. Car battery simulation

In addition to existing 12V/24V, the demand of 36V (42V system) which operates the engine, starter, and semiconductor parts is expected. This is also used as a tester power supply for the electrical components of EV (electrical vehicle).

5. Semiconductor manufacturing equipment

As a power supply for a laser, a heater, and RF power supply, it controls or adjusts energy.

6. Medical

As a power supply for a laser, it controls or adjusts energy.

7. Labs and Research

As a power supply used in research and experiments, in schools and research institutes.