

# IR Electronic Newspaper

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## ■ **SG's net revenue of Apr. reached NTD.102,547 thousand dollars**

SG's net revenue of Apr. is NTD.102,547 thousand dollars, representing a decrease of 18.57% on a year-over-year comparison basis. Nevertheless, the accumulated revenue from still exceed that of the previous year by 5.92%.

Items	Net Revenues (NTD.1,000)
Apr.,2006	102,547
Apr.,2005	125,929
Difference	-23,382
YoY	-18.57%
Accumulated Revenue of 2006	412,956
Accumulated Revenue of 2005	389,888
Difference	23,068
YoY	5.92%

## ■ **Trading info. of Apr.**

### Monthly Trading Volume

High Price	Lowest Price	Weighted Ave. Price	Transaction	Transaction Trade Value (NTD.1,000)	Trade Volume (1,000 Shares)
84.80	72.10	78.19	20,760	3,194,300	40,852

### Foreign & institutional Investors

Objects	Buy (1,000 Shares)	Sell (1,000 Shares)	Difference (1,000 Shares)
Foreign Investors	592	286	306
Securities Investment Trust Companies	112	1,754	(1,642)
Dealers	511	559	48
Total	1,215	2,599	(1,384)

## Company Introduction

System General (SG) was founded in 1983 as a consulting company specializing in Device Programming and Power Management. In 1985, the company expanded its operations to include the design and manufacture of Device Programmers. Aiming to become the leader in its field of expertise, SG is committed to delivering products and services of the highest quality. It has earned an excellent reputation from customers all over the world. System General significantly expanded its business scope in 1999, after merging with the IC design company ESIC. Armed with a strong R&D team, SG successfully entered the business by delivering its first series of Power Management products. System General's innovative energy-saving power conversion designs were well received by the market.

With the corporate vision of "Innovation for a Better Tomorrow", SG's business goal has always been to provide original products that improve people's lives. SG operates through two strategic business units: Semiconductors and Programming Instruments. Both units have the backing of dedicated and highly skilled R&D, manufacturing, sales, logistics and technical support teams.

SG is headquartered in Taipei, Taiwan. It has branch offices in the USA, China, and Hsinchu Taiwan. System General also works with sales agencies throughout the world.

SG Website : <http://www.sg.com.tw/>

**Market Observation Post System**

**Website :**

<http://newmops.tse.com.tw/>

**Monthly Margin Transactions**

Objects	Beginning Remain (1,000 shares)	Ending Remain (1,000 shares)	Difference (1,000 shares)
Purchase on Margin	7,333	9,925	2,592
Short Sales	341	337	(4)

■ **Important info. and stocks related release of Apr.**

**1.Summary of important info. :**

**2.Stocks related release :**

- (1) Employee stocks option of 2003 had been exercised 0 share during Apr.
- (2) Employee stocks option of 2003 had been exercised 787.500 shares till Apr. 30th.,2006

■ **What's new**

**System General's New Power ICs Achieve Excellent Power Factor Correction Performance**

Taipei, Taiwan, April 19-System General (SG), a leading innovator of power management ICs, today announced its new generation of Power Factor Correction (PFC) controller chips. This brand-new product line has been developed using SG's own patented technologies to help customers simplify power system design while reducing overall operational costs. With lower external components cost and higher reliability, this latest addition to the SG product line provides power system developers with a really high price/performance PFC solution. This product line is suitable for end applications requiring PFC features, such as LCD TVs, electrical ballasts for lighting, desktop computers and notebook computers. Three models have been introduced to the market, including the SG6931, SG6902 and SG6961.

Power Factor (PF) is the ratio between actual power and apparent power, and this varies between 0 and 1. The higher the PF—that is, the closer it approaches 1—the more efficient the power supply is. Power Factor Correction (PFC) controllers are used to improve the PF ratio. This improvement not only increases power efficiency and reduces unnecessary apparent power, it also helps to reduce interference to equipment from the power supply. SG currently offers a wide variety of PFC controllers to meet different power supply requirements of applications such as LCD TVs, electrical stabilizers, desktop computers, and notebook computers, providing each end product with improved energy efficiency.

Tom Yang, CEO and founder of System General states, "The old PFC solutions were quite expensive, making it difficult for customers to achieve high quality at low cost. Now, System General's patented technology has solved this problem. Our highly integrated PFC controllers will provide customers with high technical merits at an acceptable cost." In addition to the advantage in system cost, this product line also incorporates many other technological innovations, ensuring efficiency and reliability of the power supply system. SG's patented technologies include the Multi-Vector Error Amplifier (US Patent 6,900,623) that provides dual over-current protection and the Switched Charge Multiplier-Divider (US Patent 6,812,769) that greatly improves signal noise resistance as well as an innovative divider IC that provides the PFC feature at low cost.

The new PFC controllers are available to customers as a PFC/PWM combo IC or as a standalone PFC controller IC.

The SG6931 is a PFC/PWM combo-IC for “forward” topology of a power supply/adaptor, while the SG6902 is a PFC/PWM combo-IC for “flyback” topology. These two combo ICs integrate the PFC and PWM controllers into one single chip, and are designed to provide current transfer operations in Continuous Conduction Mode (CCM) for high output power systems rated above 150W. Their advantages are not only a reduction in system components; they also provide several features to improve power efficiency. Apart from including main features such as Over Temperature Protection (OTP), Over Voltage Protection (OVP), Under Voltage Protection (UVP), Over Power Protection (OPP), Short Circuit Protection (SCP) and Brown-Out protection, their patented amplifier technology also improves output dynamic response. In addition, the SG6931 allows the adjustment of the maximum PWM cycle and has added a soft switching function; the SG6902 has two stages of PFC output voltage setting function and it reaches optimal power efficiency without switching under light load.

The SG6961 is a standalone PFC controller chip that has excellent power and total harmonic distortion performance, making it suitable for electrical switching operations under critical current modes. It is suited to switching power supplies rated between 70W ~ 200W, and incorporates protective circuitry such as OVP, Output Over-Current, Under Voltage Lock Out and Open Loop Protection. It also provides features such as fast dynamic response and over voltage dampening.

System General's power management ICs can greatly improve the reliability of a power system and provide extremely stable power quality. Tom Yang, CEO and founder of System General says, “The new products that we have unveiled demonstrate System General's dedication to developing power-saving technology that helps customers compete on the market. We will continue to research new and innovative technologies to provide complete power supply solutions for different fields.”

### **System General Launches into the LCD TV Power Supply Control IC Market**

Taipei, Taiwan, May 3-System General Corporation, the leader in the LCD monitor power adapter market, today announced its brand new power supply solutions, while at the same time unveiling its advance into the LCD TV market. This full range of solutions is ideal for various-sized LCD TVs, in which System General leverages its power IC products, including PFC (power factor correction) control chips, PWM (pulse width modulation) control chips and supervisor ICs. Boasting its ever-growing product portfolio, System General moves a step nearer to a new milestone driven by dramatic growth in the LCD TV market.

With prices rapidly becoming acceptable, the shipment of LCD TVs is increasing dramatically. According to the DisplayBank's latest report, the average compound annual growth rate of LCD TVs from 2006 to 2010 will be 35%, with shipment expected to increase from 40.2 million units in 2006 to 92.8 million units in 2010. The booming development in the market ensures the need for power supplies of LCD TVs equally. With over 50% of the LCD monitor power adaptor market share globally, System General is introducing a power reference design that addresses requirements of various-sized TVs in the concept of total solutions. System General indicated that it has been initially involved in a partnership with well-known domestic LCD TV power supply manufacturers, and solid achievements are anticipated to contribute to development in the near future. “We expect to gain about 20% of the worldwide LCD TV power supply market share by end of next year.” said Mr. Chandler Lin, President of System General.

"System General's consistently adhered to belief is to help power supply customers reduce costs of their power systems using innovative technologies while further achieving its environmentally friendly focus of energy saving." said Eric

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Lan, Vice President of the Sales & Engineering Division, System General. System General always rolls out solutions that allow users and manufacturers of LCD TVs, regardless of small, medium or large sizes, to fully benefit from its products. For general users, System General's LCD TV power solution significantly optimizes the power conversion efficiency, saves standby energy consumption, while achieving the environmental target of saving energy. For power supply manufacturers, System General's power IC significantly simplifies design circuits of power systems, reduces external component costs, while enhancing the price-to-performance ratio of power supplies.

In typical power supplies for 32-inch LCD TVs, for example, System General's solution employs its SG6931 PFC/PWM combo IC to design the main circuit that comes with the SG6741 PWM control chip as the standby power circuit plus the SG6515 supervisor IC. As a result of such a combination, a 320-watt output power is provided, with a power factor better than 0.98, average power conversion efficiency of 85%, and standby energy consumption lower than 1W. This complies with the strictest low-standby power consumption standard from the EU. Amazingly, the total system material cost of such a high-quality solution only amounts to NT\$1.5 per watt, making it the ideal solution that features the optimal price-to-performance ratio available in today's market.

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