



December 6, 2011

GS Yuasa Corporation

**GS Yuasa’s Solution for Recurring Blackouts  
Introducing New Uninterruptible Power Supply (Mini UPS) for Long Backup**

GS Yuasa Corporation (Tokyo Stock Exchange: 6674) announced today the launch of the Acrostar THA1000-90-FCG (1000VA/800W output), a general-purpose uninterruptible power supply (the mini UPS) with a quick-charge function to provide long-term power backup even during extended, recurring blackouts (from several days to as long as one week). The mini UPS is on sale from December 6.

While conventional general-purpose uninterruptible power supply (mini UPS) can provide long-term backup by increasing the number of batteries, it typically takes more than 24 hours to charge depleted batteries after a backup operation. By comparison, the Acrostar THA1000-90-FCG can provide 90 minutes long-term power backup and charges in just six hours (after rated load discharge) thanks to its quick EV charger. This allows the system to recover quickly for the next backup operation.

The UPS can be plugged directly into a standard socket and features an integral design with wheels for ease of maneuverability and installation, and additional battery extension packs may be attached to increase the backup time.

With its superior functionality, quality, and reliability, the Acrostar THA1000-90-FCG can be used to provide backup power to servers and storage, network equipment, FA systems, financial systems, broadcasting and communication systems, measurement and control systems, security, disaster-prevention and monitoring systems.

**Features**

**1. EV quick-charge unit built in for rapid charging**

Backup time and charge recovery time based on power usage

Power usage	Backup time	Charge recovery time
800W	60 minutes (1 hour)	6 hours
600W	90 minutes (1.5 hours)	
300W	180 minutes (3 hours)	

**2. Backup time can be extended with a battery extension pack (optional)**

Backup time and charge recovery time based on power usage

Power usage	Backup time	Charge recovery time
800W	120 minutes (2 hour)	12 hours
600W	180 minutes (3 hours)	
300W	360 minutes (6 hours)	

**3. UPS can connect directly to a standard socket**

(1500VA or below for combined UPS and charger input)

#### 4. Power management function using LAN or serial connection (optional)

Availability: December 6, 2011

Annual sales target: 500 units

Suggested retail price: ¥833,700 (¥794,000 excluding tax)

#### Image

Acrostar THA1000-90-FCG general-purpose uninterruptible power supply



## Specifications

Item		THA1000-90-FCG	Reference
AC output	Power capacity	1000VA/800W	
	Operating method	Synchronous on-line inverter power feeding	
	Transfer mode	Synchronous uninterruptible	Note 1
	Phase	Single-phase 2 wire	
	Rated voltage	100V	
	Voltage accuracy	-1% , +3%	
	Rated frequency	50/60Hz	varies with input frequency
	Frequency accuracy	within $\pm 0.5\%$	at backup time
	Waveform distortion	3% or lower	at linear load
	Transient response	within $\pm 10\%$	at input voltage step $\pm 10\%$ at rapid load variation 0??100%
	Type	NEMA5-15R (4 units) retaining type	
AC input	Phase	Single-phase 2 wire	
	Voltage	132V	maximum value
		85V	minimum value
	Frequency	50/60Hz $\pm 3\text{Hz}$	automatic selection
	Input capacity	1500VA or lower	combined 2 system input
Input plug type	UPS: NEMA5-15P parallel 2 prong with an earth connector (2m) Charger: NEMA5-15P parallel 2 prong (2m)		
Battery	Backup time	1.5 hours or more (600W)	25 /initial characteristic
	Charge time	6 hours	at rated discharge
	Type	Small valve-regulated lead-acid	
Other	Calorific value	165W , 594kJ/h	
	Usage environment	Temperature	0 ~ 40
		Humidity	30 ~ 90%
	Cooling system	Forced air cooling	at backup, rated load: high-speed operation
	Noise	Less than 40/50dB	1m from front, A characteristics; at low speed or high speed operation
	Outer dimensions	W 226xD535xH630mm	excluding protrusions
	Mass	Less than 100kg	
	Exterior panel color	Black	
	Insulation resistance	5M $\Omega$ or higher	at DC500V megger
	Insulation withstand voltage	AC1,500V per minute	input and output - FG
	External interface	Comm interface (D-sub9 pin/female)	

Note 1: Excluding instances of inverter malfunction