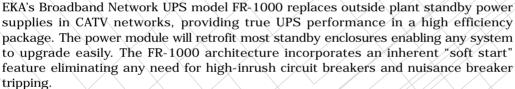
FR-1000





FR-1000 is not limited to single-frequency operation, but accepts a wide range of input frequencies and voltages. Consequently, generator compatibility is maximized. Bi-directional Power Sharing (BPS) allows continuous power flow from utility or the battery string to smoothly support load requirements without the need for mechanical transfer, tap switches or line-detection circuits.

FR-1000 has a microprocessor-controlled LCD Front Panel with four push-buttons indicating the following measurements: input & output values, alarms and operation mode. Periodic battery tests may be programmed through the menus displayed on the LCD. Additional LED's placed vertically on the LCD Front Panel are representing four load outputs limited and auto-controlled at 8 A each and 20 A all four together. In-circuit programming is available for software uploads to keep the HMS-compatible communications protocol up-to-date. Custom-made units are available, kindly contact factory for more details.

Features:

- True on-line
- · No transfer, no interruption
- High efficiency
- · Ferroresonant output
- BPS Technology
- Longer battery run-time
- 48/63 Vac selectable output voltage
- Temperature compensated four stage charger

- Current-limited four output channels
- · User friendly LCD Display
- 36/48 Vdc battery operation
- 90 to 275 Vac operating input voltage
- Near unity power factor
- Battery temperature sensor
- 300 mA ground leakage relay
- IEC 60728-7-3 compliant status monitoring (SCTE HMS standards)



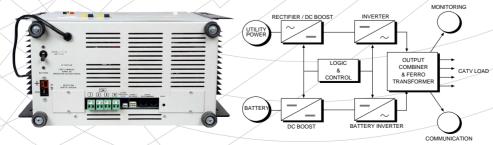
CATV Power

FR-1000

TECHNICAL SPECIFICATIONS

GENERAL					
	Input Voltage	90 - 275 Vac			
	Input Current	10 A - 6 A			
	Input Frequency	45 - 65 Hz.			
	Input Power Factor	0.98 or better			
	Output Voltage 48 / 63 Vac ± 2%				
	Output Current	20 A - 16 A			
	Output Power				
	Efficiency				
\times	Battery Voltage	48 Vdc nominal			
(Low Battery Cutoff	43,2 Vdc (1,8 V/cell)			
\times	Battery Charger 4-stage; trickle, bulk, balance and float				
" X X /	Recharge Current	485 x 450 x 250 mm 33 kg			
\times \times \times \times	Charger Temp. Compensation				
$\times \times \times$	Dimensions				
/	Weight				
\times \times \times	Operating Temperature Range				
$\times \times \times$	Cooling				
INDICATORS					
XXX	Tri-State LED's	GREEN	AMBER	RED	
	Line (AC input)	Normal (OK)	N/A	Alarm (AC input Low or absent	
	Batteries	Normal (OK)	Discharging	Alarm (No DC present)	
	Charger	Normal (OK)	Recharging	Alarm (charger is off)	
	Battery Temp. Sonsor	Normal (OK)	N/A	Alarm (disconnected or faulty)	
	V Out	Normal (OK)	N/A	Alarm (no output voltage)	
	Battery Test	Testing Locally	Testing Remote	ely Alarm (check battery)	
FRONT PANEL TEST				XI XX X X X X X X X X X X X X X X X X X	
	Pin Tip Jacks for	Output voltage (TRMS) Output Current (100 m V/A TRMS) Battery voltage (DC)			
	Push button for battery test and				
PROTECTION	i and summer summer and	- Jan g diamio		//_/X/_//	
	Battery Circuit	ker: front panel =	nounted		
\times	Output Circuit	50 A Circuit breaker; front panel mounted 30 A slow-blow built-in internal fuse			
	Input	- / / / ·	Metal Oxide Varistor (MOV), Line Interface Network (LIN) and 20 A fus		
STATUS MONITORING	input	ivicial Oxide Val	isioi (iyiOv), Line	michace Network (EIN) and 20 A lus	
	Front Panel 20 pin Mini Male-N	ont Panel 20 pin Mini Male-N-Lock Connector			
/ X	Digital Outputs:			gital Inputs:	
	AC Line status	AC Line curre		Battery test run/stop (remote)	
	• Battery status	Output current		Battery test fail alarm reset (remote)	
	Running on batteries status	Battery string		battery test fall alaitti reset (reiffole)	
	Temperature probe status	- Dattery stillig	, chage	_//	
	· X /		//		
X	Charger status Battery test active status				
				/	
/_	Battery test fail status (alarm)				

EKA reserves the right to make any changes that reflect upcoming improvements.



EHA

EKA ELEKTRONIK KONTROL ALETLERI SANAYI VE TICARET A.S. Dudullu Organize Sanayi Bölgesi 2. Cadde No: 3 Ümraniye 34776 Istanbul Turkey. Tel: (+90216) 499 37 40 pbx, Fax: (+90216) 499 37 49 e-mail: export@eka.com.tr, www.eka.com.tr Ankara: Atatürk Bulvar³ No: 59/22 K³zlay 06410 Ankara Tel: (+90312) 435 10 82 Fax: (+90312) 435 02 82







CATV Power