

MINIFLEX SERIES Modular 19" Rack Mount Telecom Sinewave Inverter System

**2 to 6KVA
40 to 60V DC input**

The Miniflex Series – brand new inverter with up-to-date technology and improved modularity.

This inverter has been designed to offer low cost per VA and offers our standard features. High local level of intelligence, reliability and smart characteristics. Module is very compact : 1U height and it can be integrated in 400mm deep cabinet.

Modules are mounted in racks from 2kVA up to 6kVA, with inverter modules of 1000VA capacity. A static switch can be ordered as an option providing second AC source back-up with very fast switching time. Modular distribution is available providing a complete range of products to match most of your applications up to 6kVA. Easy to install and to use, this new system is the ideal solution for system integration or dedicated solutions. Existing in 120VAC and 230VAC output, the DC input range is from 40 to 60VDC.

Some of the product features include :

- High efficiency
 - Patented technology
 - Hot swap capability
 - Full Digital Signal Processing control
 - Parallel operation in True Redundant System
 - Active load sharing and several disconnection levels
1. Monitoring controllers SYS100 and SYS3000 can be connected as an option.
 2. For special applications they can be extended beyond with an auxiliary rack (For further information refer to your supplier).
 3. Depending on the number of inverters, the presence or not of the static switch and the output voltage, choice can be made among 9 racks. All have 19" compatible basement (380mm x 480mm), heights are 2U (87,50mm), 4U (178,20mm), 6U (266,00mm) and 8U (353mm). For details, please refer to "Product Description" and "How to order" documents.
 4. Miniflex System
 - 1KVA with redundancy n+1
 - 2KVA without redundancy
With or without static transfer switch
 - 3KVA with redundancy n+1
 - 4KVA without redundancy
With or without static transfer switch
 - 5KVA with redundancy n+1
 - 6KVA without redundancy
With or without static transfer switch



Miniflex without static switch



Miniflex with static switch and manual bypass

**Costing on System
on Request**

TECHNICAL SPECIFICATIONS

MODEL		120 VAC output	230 VAC output
Input Specifications	Operating voltage range	40 up to 60 Vdc	
	Stopping voltages (+1 V)	39 and 63 Vdc	
	Restart voltages (+1 V)	46 and 60 Vdc	
	Maximum Input current @ 40 VDC 800W	23A	
	lin max. at U _{in} =48V, 100% overload	37A	
	Inrush current	< I nom.	
Output Specifications	Nominal output voltage	120V	230V
	Output voltage tolerance	+ 3% of adjusted nominal voltage	
	Output voltage frequency	50Hz or 60Hz selectable	
	Total harmonic distortion	<3% (on linear load at nominal power)	
	Total transient recovery time	< 0,3 msec typical	
	Turn on delay	< 3 sec	
	Nominal value of output current	8,3 A	4,4 A
	Short circuit output current (Typ.)	23A	12,3A
	Crest factor at nominal power	3 : 1	
Output power	Nominal Value	800W / 1000VA	
	Permanent Overload	125 %	
	Overload (+/- 15%, 5 sec. Max, self protected)	2000W / 2000VA	
	Power factor influence	Full power output (1000VA) with Pf from 0 to 0,8 Limited to 800W with Pf from 0,8 to 1	
Electro magnetic compatibility	Standard applied for immunity	EN 61000 – 4-2 / 4-3 / 4-4 / 4-5 / 4-6	
	Standards applied for emission	ETS300-132-2 EN55022 ClassB	
Efficiency (@ nominal power, Pf = 1)		>9 0%	
Temperature	Storage temperature	-40°C to 80°C	
	Permissible ambient temperature	-20°C to 50°C	
MTBF (according MIL-HDBK 217F)		> 250000h	
Dielectric strength		4300 Vdc input / output 4300 Vdc output / ground	2100 Vdc input / ground
Input and output fuses (Internal)	DC input fuse (Class T, fast acting)		
	AC output fuse (Form 101)		
Safety		EN60950 / UL 1950	
Dimensions (W x D x H)		480 x 44,5 x 350 mm	
Weight (Kgs, approx.)		6 KG	
EMC standards		ETS 300132	
Safety standards	The power supply system fulfils the mentioned international and national safety standards according to grounding, fire protection and other safety matters	EN60950 UL60950 & UL1778	
Environment	Operation Temperature	-40°C to + 55°C	
	Storage Temperature	-40°C to + 80°C	
	Vibration	IEC 721-3-3	
	Shock	IEC 721-3-2	
	Audible noise	< 35dB(A)	
	Cooling	Forced convection	
		Since inverter modules use forced cooling, good air circulation has to be guaranteed. Miniflex racks can be stacked with other equipment provided that airflow is kept free.	

We reserve the right to change specifications without prior notice

Cat/Miniflex

Tel: 9011) 886-7874

Fax: (011) 787-0178

Email: sales@sinetech.co.za