

SCIMITAR SERIES RACK-MOUNT TELECOM INVERTERS WITH STATIC TRANSFER SWITCH

DESCRIPTION

The SCIMITAR Series are 1kVA & 2kVA sine-wave inverters which are 19" rack-mountable and only 1RU high. They operate from a 12V, 24V or 48VDC source and produce a 115 or 230VAC output. The low distortion 50 or 60Hz sine wave is produced by DSP controlled power circuits using an advanced high frequency, pulse-width modulation technique which achieves up to 92% efficiency.

A built-in Static Transfer Switch allows connection of a utility or other AC power source which can be switched to the load automatically in the event that the inverter switches off.

A front panel LED display indicates various inverter statuses and a relay alarm output is available for remote monitoring.

Output voltage and frequency are programmable from the front panel, as well as Baud Rate for the RS232 communications interface.

FEATURES

- ◆ One Rack Spaces High: 1.75"
- ◆ 19-Inch Rack Mounting
- ◆ 1000 or 2000 VA Output Capacity
- ◆ 115VAC or 230VAC Output
- ◆ 50 or 60Hz Low Distortion Sine Wave
- ◆ 12, 24 or 48VDC Input
- ◆ 90% Typical Efficiency
- ◆ Static Transfer Switch Built-in
- ◆ Programmable Output Voltage and Frequency
- ◆ Powers Reactive Loads
- ◆ LED Status Display

TWO-YEAR WARRANTY



STANDARD MODELS

MODEL	OUTPUT POWER	OUTPUT VOLTS	INPUT VOLTS
YK-PSW121KVA	1000VA @ 0.85PF 850W @ 1.0PF	115VAC	12VDC
YK-PSW241KVA			24VDC
YK-PSW481KVA			48VDC
YK-PSW121KVAE		230VAC	12VDC
YK-PSW241KVAE	24VDC		
YK-PSW481KVAE	48VDC		
YK-PSW122KVA(1U)	2000VA @ 0.85PF 1700W @ 1.0PF	115VAC	12VDC
YK-PSW242KVA(1U)			24VDC
YK-PSW482KVA(1U)			48VDC
YK-PSW122KVAE(1U)		230VAC	12VDC
YK-PSW242KVAE(1U)	24VDC		
YK-PSW482KVAE(1U)	48VDC		

Notes:

1. 115VAC models are shipped pre-programmed to 60Hz.
230VAC models are shipped pre-programmed to 50Hz.
115VAC models have 2 x NEMA 5-15 outlet sockets.
230VAC models have 2 x IEC60320-C13 outlet sockets.
2. If in doubt about load PF (Power Factor) assume that it is 1.0PF.

SAFETY STANDARDS

UL60950-1
CSA22.2, No. 60950-1
EN60950-1



SPECIFICATIONS FOR 1KVA MODELS

MODEL NUMBER	YK-PSW121KVA	YK-PSW241KVA	YK-PSW481KVA	YK-PSW121KVAE	YK-PSW241KVAE	YK-PSW481KVAE
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Inverter Section

Input Voltage	10-16VDC	20-32VDC	42-62VDC	10-16VDC	20-32VDC	42-62VDC
Output Power	1000VA @ ±0.85 power Factor 800W @ Unity Power Factor					
Surge Rating	900W for 1 minute 950W for 3 second 1000W for 1 second					
Efficiency @ FL	86%	88%	89%	87%	90%	92%
Output Voltage	100/110/115/120VAC ±3% (switch selectable)			200/220/230/240VAC ±3% (switch selectable)		
Output Frequency	50Hz or 60Hz ±0.05% (switch selectable)					
Peak Output Current	15A			9A		
No Load Current	0.75A	0.4A	0.3A	0.7A	0.35A	0.25A
Output Waveform	Pure Sine Wave <3% THD (R Load)					
Protection	Output Overload - Output Short Circuit Input Reverse Polarity (fuse) - Input Undervoltage - Input Overvoltage Over Temperature					
Digital Display	OVP - UVP - OTP - OLP - VAC AMP - WATT - VDC - TEMP - Hz					
Control Port	RS232C Baud Rates - 2400, 4800, 9600, 19200 (switch selectable)					
Remote Control Unit	Optional					

STS Section

AC Input Range	90 - 130VAC (110VAC nominal)	180-260VAC (230VAC nominal)
Frequency	47 - 63Hz	
Transfer Time	4 - 6ms	

General

Temperature Range	-30°C to +60°C Operating -30°C to +70°C Storage
Safety & EMI	CE & FCC, cUL60950-1
Dimensions	16.1"(d) x 19"(w) x 1.73"(h) 408.7mm(d) x 484.0mm(w) x 44.0mm(h)
Mounting	19" rack-mount, 1U high
Weight	14.3lbs / 6.5Kg

SPECIFICATIONS FOR 2KVA MODELS

MODEL NUMBER	YK-PSW122KVA	YK-PSW242KVA	YK-PSW482KVA	YK-PSW122KVAE	YK-PSW242KVAE	YK-PSW482KVAE
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Inverter Section

Input Voltage	10-16VDC	20-32VDC	42-62VDC	10-16VDC	20-32VDC	42-62VDC
Output Power	2000VA @ ±0.85 power Factor 1700W @ Unity Power Factor					
Surge Rating	1870W for 1 minute 2040W for 20 second					
Efficiency @ FL	86%	88%	90%	87%	90%	92%
Output Voltage	100/110/115/120VAC ±3% (switch selectable)			200/220/230/240VAC ±3% (switch selectable)		
Output Frequency	50Hz or 60Hz ±0.05% (switch selectable)					
Peak Output Current	25A			11A		
No Load Current	1.45A	0.7A	0.45A	1.47A	0.8A	0.47A
Output Waveform	Pure Sine Wave <3% THD (R Load)					
Protection	Output Overload - Output Short Circuit Input Reverse Polarity (fuse) - Input Undervoltage - Input Overvoltage Over Temperature					
Digital Display	OVP - UVP - OTP - OLP - VAC AMP - WATT - VDC - TEMP - Hz					
Control Port	RS232C Baud Rates - 2400, 4800, 9600, 19200 (switch selectable)					
Remote Control Unit	Optional					

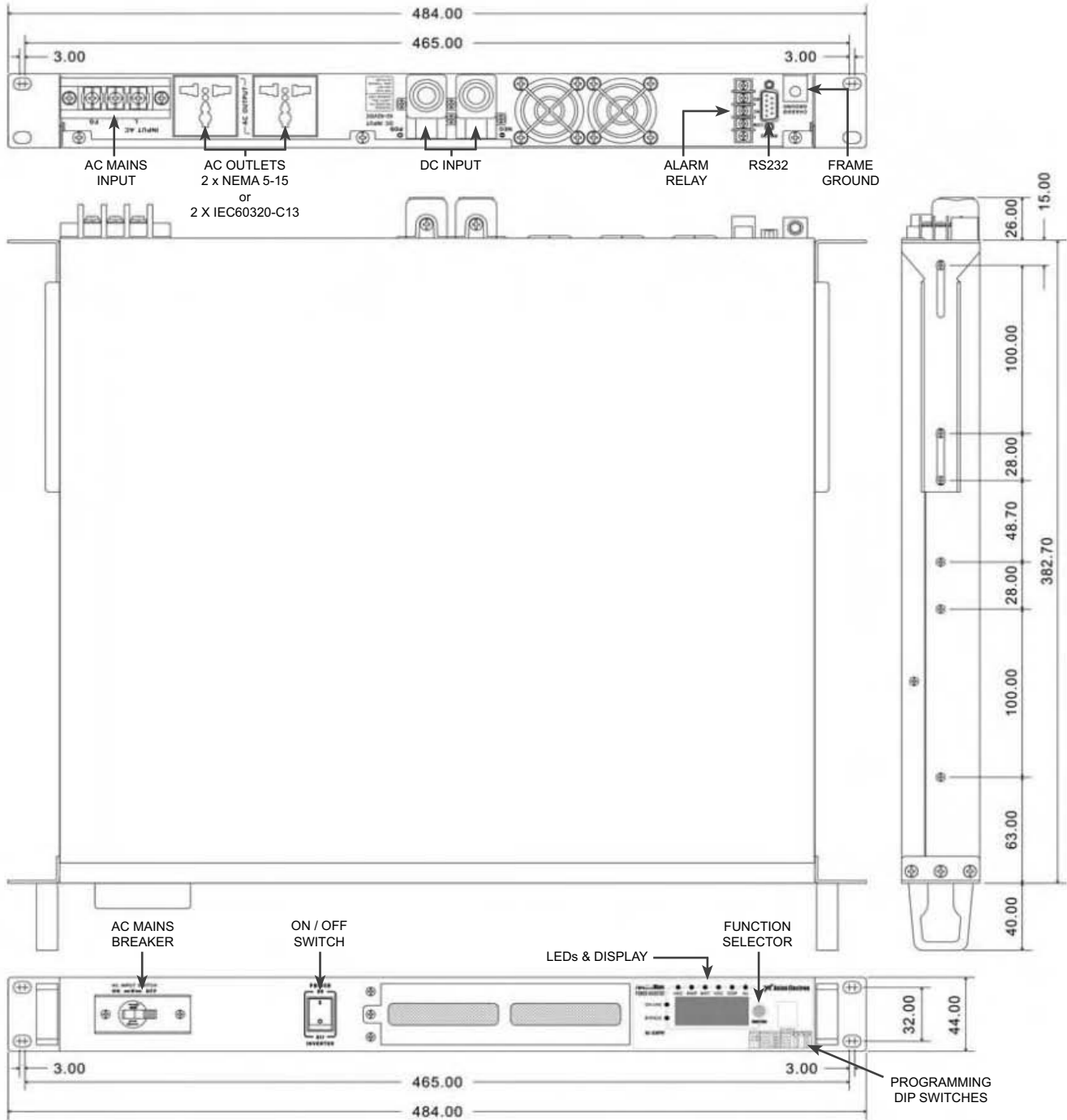
STS Section

AC Input Range	90 - 130VAC (110VAC nominal)	180-260VAC (230VAC nominal)
Frequency	47 - 63Hz	
Transfer Time	4 - 6ms	

General

Temperature Range	-30°C to +60°C Operating -30°C to +70°C Storage
Safety & EMI	CE & FCC, cUL60950-1
Dimensions	16.1"(d) x 19"(w) x 1.73"(h) 408.7mm(d) x 484.0mm(w) x 44.0mm(h)
Mounting	19" rack-mount, 1U high
Weight	16.5lbs / 7.5Kg

MECHANICAL DRAWING



Standard Outlet Sockets: 2 x NEMA for 120VAC models, 2 x IEC60320-C13 for 230VAC models.