



Backup and PUS Pure Sine Wave Pwer Inverter for Load Shedding

SYNAPSE

- Pure sine wave output
- Smart LCD setting (frequency , charge voltage, charge current, etc).
- 3 steps charging algorithm
- Built in AVR function
- Overload and short-circuit protection
- Battery reverse polarity protection (Optional)
- Deep discharge protection
- Cold start function



The SYNAPSE Solar pure sine wave series is designed to work and protect PC equipment and serves as a backup device in extremely hostile power environments where other UPS simply cannot operate. An extra wide input AVR conserves battery for added security. Includes a multi-stage surge suppressor which can protect from surges and spikes. Available in 600W and 1000W versions. These units are powered / charged from the utility / grid only.



Product Code		SYNAPSE 600	SYNAPSE 1000
Default Battery System Voltage		12V DC	24V DC
Inverter Output	Rated Power	600W	1000W
	Surge Rating (20ms)	1800W	3000W
	Waveform	Pure Sine Wave	Pure Sine Wave
	Rated Output Voltage	Inverter: 230V AC (+/-2% RMS), AVR: 195V AC - 245V AC	
	Output Frequency	50Hz / 60Hz +/-0,2Hz	50Hz / 60Hz +/-0,2Hz
	Inverter Efficiency (Peak)	>75%	>81%
	Bypass Efficiency	>95%	>95%
Output Transfer Time	Typical: 6ms 10ms (Max.)	Typical: 6ms 10ms (Max.)	
Battery	Minimum Start Voltage	Low Battery Voltage Cutoff +0,5V	Low Battery Voltage Cutoff +0,5V
	Low Battery Alarm	Low Battery Voltage Cutoff +0,5V	Low Battery Voltage Cutoff +1V
	Low Battery Cutoff	10 - 12V DC	20 - 24V DC
	High Battery Cutoff	Nominal Voltage +0,5V	Nominal Voltage +1V
Ac Charge	Floating Voltage	13,5 / 13,6 / 13,7V DC	27 / 27,2 / 27,4V DC
	Nominal Voltage	13,8 ~ 14,5V	27,6 ~ 29V
	Maximum Charge Current	600W	1000W
		20A	15A
Bypass & Protection	Input Waveform	Pure Sine Wave	Pure Sine Wave
	Input Frequency	50Hz or 60Hz	50Hz or 60Hz
	Low Frequency Trip	45+ / -0,2Hz	45+ / -0,2Hz
	Low Frequency Trip	65+ / -0,2Hz	65+ / -0,2Hz
	Overload Protection	110% ~ 125% R Load fault after 30S 125% ~ 150% R Load fault after 3s >150% R Load fault after 500ms	
	Over Temperature Protection	>90°C	>90°C
	Bypass Output Protection	10A 250V AC	10A 250V AC
Output Circuit protection	YES	YES	
Mechanical Specification	Dimensions	385 x 325 x 190mm	385 x 325 x 190mm
	(N.W) kg	3000W	1000W
		8kg	13,5kg
	Shipping Dimensions (W x H x D)	420 x 385 x 225mm	420 x 385 x 225mm



SYNAPSE-C2

Acc. Battery Boxes

Product Code	Description
SYNAPSE-C1	Battery box for 1x 12V 100AH
SYNAPSE-C2	Battery box for 2x 12V 100AH