With more than 1000 models to choose from, there is a Samlex solution for all of your power conversion requirements

SAMLEX AMERICA

SAMLEX POWER PRODUCTS

InverCharge Series

FEATURES

Pure sine wave output
Heavy duty inverter with high power battery charger included
Highly efficient operation, high surge capacity and low idle current
Seamless transfer (grid / generator to battery and battery togrid / generator)
Adjustable load sensing
Long backup time up to 10 hours (based on the battery bank and loads)

APPLICATIONS

Supplies power to various loads such as resistive load, inductive load, motors and rectifier load.

1000 / 2000 / 3000 Watts

TECHNICAL SPECIFICATIONS

SPECIFICATION	Model No. (Suffix "A" for 120 VAC version & suffix "E" for 230 VAC version)				
	S-1012A	S-2012A	S-1024A	S-2024A	S-3024A
		S-2012E		S-2024E	S-3024E
OUTPUT PARAMETERS					
Continuous power	1000 W	2000 W	1000 W	2000 W	3000 W
Surge power (less than 2 sec)	1500 W	3000 W	1500 W	3000 W	4500 W
Standard output voltage & frequency	120 VAC, 60 Hz / 230 VAC, 50 Hz ± 10%				
Output waveform (DC mode - Inverter)	Pure sine wave (THD < 3.5% @ linear load & < 5% @ non-linear load)				
Power Factor allowed	0.8 to 1				
AC breaker rating on the load side:					
120 VAC version	15 A	30 A	15 A	30 A	40 A
230 VAC version	15 A	15 A	15 A	15 A	20 A
Resistive load	100%				
Inductive load	YES				
Motor load	YES				
Rectifier load	YES				
INPUT PARAMETERS					
DC Current at rated power	120 A	240 A	60 A	120 A	180 A
DC Current at short circuit	360 A	720 A	180 A	360 A	540 A
Nominal DC input voltage	12 VDC		24 VDC		
DC input voltage range	10.0 ~ 15 VDC		20.0 ~ 30 VDC		
Maximum AC input current	15 A	30 A	15 A	30 A	40 A
AC TRANSFER PARAMETERS					
Transfer time	16 ms +/- 4 ms				
Automatic Transfer Relay	16 A	40 A	16 A	40 A	
Upper frequency limit (Grid Inverter transfer)	65 ± 0.5 Hz @ 60 Hz / 55 ± 0.5 Hz @ 50 Hz				
Upper frequency limit (Inverter Grid transfer)	63 ± 0.5 Hz @ 60 Hz / 52 ± 0.5 Hz @ 50 Hz				
Lower frequency limit (Grid Inverter transfer)	55 ± 0.5 Hz @ 60 Hz / 45 ± 0.5 Hz @ 50 Hz				
Lower frequency limit (Inverter Grid transfer)	57 ± 0.5 Hz @ 60 Hz / 47 ± 0.5 Hz @ 50 Hz				
Upper voltage limit (Grid Inverter transfer)	135 ± 4 VAC @ 120 VAC / 264 ± 4 VAC @ 230 VAC				
Upper frequency limit (Inverter Grid transfer)	133 ± 4 VAC @ 120 VAC / 264 ± 4 VAC @ 230 VAC				
Lower frequency limit (Grid Inverter transfer)	85/95 VAC @ 120 VAC / 170/200 VAC @ 230 VAC (selectable)				

Technical Specifications subject to change without notification.

To view a full selection of Samlex products visit our website at www.samlexamerica.com
or contact us: 1 (800) 561-5885 or (604) 525-3836

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TECHNICAL SPECIFICATIONS

PARAMETERS - INVERTER MODE					
Full load efficiency	85% max.		87% max.		
No load power consumption	26 W	52 W	30 W	73 W	80 W
Power consumption in Search Load Mode	9 W	20 W	12 W	30 W	29 W
Loading required to Search Load Mode	150 W ~ 220 W				
Power Factor Allowed	0.8 to 1				
Overload:					
110%	Shut down after 60 seconds				
130%	Shut down after 30 seconds				
>150%	Shut down after 2 seconds				
PARAMETERS - BATTERY CHARGER SECTION					
Float voltage (selectable)	13.2/13.8 VDC		26.4/27.6 VDC		
Absorption voltage (1 Hour)	14.5 VDC		29 VDC		
Adjustable charging current	4 ~ 40 A	8 ~ 80 A	2 ~ 20 A	4 ~ 40 A	6 ~ 60 A
Number of charging profiles	3				
AC input Power Factor	0.42				
Input AC breaker: 120 VAC version	15 Amps	30 Amps	15 Amps	15 Amps	40 Amps
230 VAC version	15 Amps	15 Amps	15 Amps	15 Amps	20 Amps
Battery charger efficiency: 120 VAC version	81%	80%	84%	86%	83.60%
230 VAC version	80%	80%	83%	85%	83.00%
PROTECTIONS					
Overload (Typ.)	130% for 10 seconds				
	Protection Type: Shutdown				
Low battery protection (Heavy/Light Load)	10.0/11.0 VDC		20.0/22.0 VDC		
DC Input reverse polarity	Internal Fuse				
SAFETY & EMI/EMC					
EMC Conduction & Radiation	Compliance to FCC Class A				
Safety Standards	UL 1741 Pending				
GENERAL					
Operating Temperature	0ºC – 40ºC				
Operating Humidity	10% - 95% RH				
Forced Air Cooling	2 Fans, Variable Speed				
Wall Mounting	YES				
Shipping Weight (kg)	16.12	23.21	15.79	20.21	25
Dimensions (WxDxH) mm	540x325x310	650x320x295	540x325x310		650x320x295

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