

SAMLEX POWER PRODUCTS

InverCharge Series



1000 / 2000 / 3000 Watts

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 to grid / generator)*
- Power Save Mode*
- Long backup time based on the battery bank and loads*

APPLICATIONS

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

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 \pm 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 \rightarrow Inverter transfer)	65 \pm 0.5 Hz @ 60 Hz / 55 \pm 0.5 Hz @ 50 Hz				
Upper frequency limit (Inverter \rightarrow Grid transfer)	63 \pm 0.5 Hz @ 60 Hz / 52 \pm 0.5 Hz @ 50 Hz				
Lower frequency limit (Grid \rightarrow Inverter transfer)	55 \pm 0.5 Hz @ 60 Hz / 45 \pm 0.5 Hz @ 50 Hz				
Lower frequency limit (Inverter \rightarrow Grid transfer)	57 \pm 0.5 Hz @ 60 Hz / 47 \pm 0.5 Hz @ 50 Hz				
Upper voltage limit (Grid \rightarrow Inverter transfer)	135 \pm 4 VAC @ 120 VAC / 264 \pm 4 VAC @ 230 VAC				
Upper voltage limit (Inverter \rightarrow Grid transfer)	133 \pm 4 VAC @ 120 VAC / 264 \pm 4 VAC @ 230 VAC				
Lower voltage limit (Grid \rightarrow Inverter transfer)	85/95 VAC @ 120 VAC / 170/200 VAC @ 230 VAC (selectable)				

Technical Specifications subject to change without notification.



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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	0°C – 40°C				
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	