



samlexamerica®

1750W



DC-AC Inverter
Modified Sine Wave

Model
PSE-12175A
12 VDC
120 VAC

Design Features

- High efficiency PWM design
- LED bar graphs indicate input voltage, input current and output power
- Temperature controlled cooling fan
- Low input voltage warning alarm
- Optional remote operation with Samlex Model RC-15 remote control (sold separately)
- Protections: high/low DC input voltage, over temperature and over load shut down
- High output power surge

2 YEAR WARRANTY

		MODEL NO.	PSE-12175A
OUTPUT	OUTPUT VOLTAGE		120VAC +5% / - 10%
	OUTPUT FREQUENCY		60Hz ± 5%
	OUTPUT VOLTAGE WAVEFORM		Modified Sine Wave
	MAX. CONTINUOUS ACTIVE POWER OUTPUT (POWER FACTOR = 1)		1750W*
	MAX. ACTIVE SURGE POWER OUTPUT (< 2 SEC, POWER FACTOR =1)		3500W*
	PEAK EFFICIENCY		85% to 90%
INPUT	DC INPUT VOLTAGE		12V Battery System (> 10.5VDC to < 16.5VDC)
	MAXIMUM DC INPUT CURRENT		< 280A
	NO LOAD CURRENT DRAW		370mA
MONITORING & INDICATIONS	DC INPUT VOLTAGE, VOLTS		Colored, 10 Level LED Bar Graph
	DC INPUT CURRENT, AMPS & ASSOCIATED OUTPUT POWER, WATTS		Colored, 10 Level LED Bar Graph
	OVER TEMPERATURE		Red LED + Buzzer Alarm
	OVERLOAD		Red LED
	LOW DC INPUT VOLTAGE		Buzzer Alarm
PROTECTIONS	COOLING		Temperature Controlled Fan
	OVER LOAD / SHORT CIRCUIT		<ul style="list-style-type: none"> • Shutdown if output power > Continuous / Surge Ratings • Manual Reset: Switch OFF, wait for 3 min and Switch ON
	OVER TEMPERATURE		<ul style="list-style-type: none"> • Shut Down when temperature of internal hot spot > threshold • Automatic reset when unit cools down
	HIGH DC INPUT VOLTAGE		<ul style="list-style-type: none"> • Shut down when DC Input Voltage > 16.5VDC • Auto reset when voltage drops below 16.5VDC
	LOW DC INPUT VOLTAGE		<ul style="list-style-type: none"> • Shut down when DC Input Voltage < 10VDC • Auto reset when voltage rises to > 11.3VDC
	LOW DC INPUT VOLTAGE ALARM		<ul style="list-style-type: none"> • Buzzer alarm when DC Input Voltage < 10.5VDC • Auto reset when voltage rises > 10.5VDC
	INTERNAL DC SIDE FUSES		Automotive Type ATC, 32V - 280A (35A x 8 pcs.)
INPUT & OUTPUT CONNECTIONS	DC INPUT CONNECTIONS		Terminal with 11 mm diameter tubular hole and M8 set screw
	AC OUTPUT CONNECTIONS		2 x NEMA5-15R Outlets
	REMOTE CONTROL CONNECTION		6P6C Modular Jack
	REMOTE CONTROL (OPTIONAL)		Wired Remote Control with 15 ft cable – Model RC-15
ENVIRONMENTAL CONDITIONS	OPERATING TEMPERATURE		0°C to 40°C / 32°F to 104°F
	STORAGE TEMPERATURE		-10°C to 65°C / 14°F to 149°F
	HUMIDITY		85% RH, Non Condensing
GENERAL	DIMENSIONS (W x D x H), MM		240 x 455 x 85
	DIMENSIONS (W x D x H), INCHES		9.45 x 17.91 x 3.35
	WEIGHT, KG		4.26
	WEIGHT, LB		9.4

NOTE: * This is the Active Power output for resistive type of load with Power Factor = 1. For reactive loads, the rating will be reduced by the Power Factor of particular type of load (0.8 to 0.6)

NOTE: Specifications are subject to change without notice

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