

**GENERAL INFORMATION**

Sensor+ Portable Packs provide full featured digital dimming including ETCNet networking and status reporting for smaller-scale portable applications.

- APPLICATIONS** Professional black-box or seasonal theater  
Solo and ensemble music tours  
Dance and performance art tours  
Television studio and film productions  
Convention and conference centers
- FEATURES** High dimmer density  
Adaptable modular design  
6 and 12 module packs available  
Rugged industrial construction  
Cam-Lok™ input power terminal  
Load connection options
  - Edison
  - Stage pin
  - Twist-Lock® (GTL)
  - Multi-pin
 Control Electronics Module
  - Advanced configuration editing built into pack
  - Stores up to 128 Presets in memory
  - DMX512 connector with pass-through
  - Standard reporting and configuration networking
  - Advanced Features dimmer-specific load reporting
  - Support ETC Dimmer Doubling™
 All packs UL and cUL listed
- ACCESSORIES** Castered cart  
Dimmer doublers

**ORDERING INFORMATION**

**Standard Portable Packs**

Model#	Description
<b>6 Module Portable Packs</b>	
SP1220A+	12 x 20A Portable Pack with Edison connectors
SP1220B+	12 x 20A Portable Pack with Pin connectors
SP1220C+	12 x 20A Portable Pack with Twist-Lock connectors
SP1220V+	12 x 20A Portable Pack with Multi-pin connectors
SP1215A+	12 x 15A Portable Pack with Edison connectors
SP1215B+	12 x 15A Portable Pack with Pin connectors
SP1215C+	12 x 15A Portable Pack with Twist-Lock connectors
SP1215V+	12 x 15A Portable Pack with Multi-pin connectors
SP1220AV+	12 x 20A Portable Pack with Edison & Multi-pin
SP1220BV+	12 x 20A Portable Pack with Pin & Multi-pin
SP650B+	6 x 50A Portable Pack with Pin connectors
SP3100B+	3 x 100A Portable Pack with Pin connectors
<b>12 Module Portable Packs</b>	
SP2420A+	24 x 20A Portable Pack with Edison connectors
SP2420B+	24 x 20A Portable Pack with Pin connectors
SP2420C+	24 x 20A Portable Pack with Twist-Lock connectors
SP2420V+	24 x 20A Portable Pack with Multi-pin connectors
SP2415A+	24 x 15A Portable Pack with Edison connectors
SP2415B+	24 x 15A Portable Pack with Pin connectors
SP2415C+	24 x 15A Portable Pack with Twist-Lock connectors
SP2415V+	24 x 15A Portable Pack with Multi-pin connectors
SP2420AV+	24 x 20A Portable Pack with Edison & Multi-pin
SP2420BV+	24 x 20A Portable Pack with Pin & Multi-pin
SP2420CV+	24 x 20A Portable Pack with Twist-Lock & Multi-pin
SP1250B+	12 x 50A Portable Pack with Edison connectors
SP6100B+	6 x 100A Portable Pack with Edison connectors

For pack configurations other than those listed above, contact your Customer Service Representative at 1.800.688.4116.

Standard Cam-Lok configuration is reverse/neutral/ground. Please specify desired Cam-Lok configuration on all orders to ensure correct configuration

Packs ship 3-Phase as standard.

**Pack Accessories**

Model#	Description
Cart	Portable Pack Caster Cart
Pass-Thru	Cam-Lok Pass Thru Panel



## SPECIFICATIONS

<b>GENERAL</b>	<p>Two sizes of pack available:            Small - 6 modules, 12 dimmers maximum            Large - 12 modules, 24 dimmers maximum</p> <p>Underwriters Laboratories cUL Marked, tested and LISTED to the following standards:            UL508 (File: E152039)</p> <p>Complies with ESTA DMX512-A Standard</p>
<b>MECHANICAL</b>	<p>Rugged aluminum construction</p> <p>Fine-textured, scratch-resistant, gray and black epoxy paint</p> <p>No tools required for module removal or installation</p> <p>Keyed module slots prevent insertion of inappropriate module types</p>
<b>THERMAL</b>	<p>High efficiency cooling system with airflow sensor</p> <p>Easily cleaned electrostatic air filter</p> <p>Low-noise fan for quiet operation</p> <p>Ambient temperature: 0-40°C / 32-104°F</p> <p>Dimmer room HVAC systems must at all times maintain the specified ambient temperature at the dimmer rack. Dimming systems operating within 10°F of the upper or lower temperature limits must strictly follow installation and operation guidelines to operate reliably</p>
<b>ELECTRICAL</b>	<p>Easily switches from single-phase 120/240 VAC to three-phase 120/208 VAC operation</p> <p>Power frequencies from 47-62Hz</p> <p>Cam-Lok power input connectors</p> <p>Choice of Stage pin, Edison or Twist-Lock® or 19-pin multi-pin output connectors</p> <p>10,000 AIC rating</p>
<b>ELECTRONIC</b>	<p>4000V of optical isolation between control input and output</p> <p>Update rate is 40Hz; response to control is less than 25 milliseconds</p> <p>Dimmer outputs may be regulated to maintain constant power to loads</p>
<b>CONTROL ELECTRONICS</b>	<p>Sensor+ Control Electronics Module (CEM+)</p> <p>Single Ethernet control signal input</p> <p>Two DMX512 inputs with DMX termination switches as well as pass-thru connectors</p> <p>High visibility LED status beacon</p> <p>Standard diagnostic reporting</p> <p>Supports ETC Dimmer Doubling™</p>
<b>OPTIONS</b>	<p>Advanced Features™ dimmer-specific output reporting - requires Advanced Features (AF)dimmer modules</p> <p>Custom output panels (call ETC for details)</p> <p>Cam-Lok pass-through panel</p> <p>Castered Cart</p>

## DIMENSIONS

### Portable Pack Dimensions

Model	Height		Width		Depth	
	inches	mm	inches	mm	inches	mm
SP6	15.0	380	17.5	440	12.6	320
SP12	24.3	610	17.5	440	12.6	320

### Portable Pack Weights

Model	Weight		Shipping Weight	
	lbs	kg	lbs	kg
SP6	70-90*	32-41	75-95	34-43
SP12	110-130*	50-59	115-135	53-62

\*Actual weight depends on type of dimmer modules

## MODULE ORDERING INFORMATION

### Dimmer Modules

Model#	Description
<b>Standard Sensor Modules</b>	
D15	Dual 15A Dimmer Module - 350µS
D20	Dual 20A Dimmer Module - 350µS
D15E	Dual 15A Dimmer Module - 500µS
D20E	Dual 20A Dimmer Module - 500µS
<b>Advanced Features Sensor Modules</b>	
D15AF	Dual 15A Dimmer Module - 500µS - Advanced Features
D20AF	Dual 20A Dimmer Module - 500µS - Advanced Features
D20DHR	Dual 20A Dimmer Module - 800µS - Advanced Features
D20HR	Single 20A Dimmer Module - 1000µS - Advanced Features
D50AF	Single 50A Dimmer Module - 500µS - Advanced Features
D100AF*	Half 100A Dimmer Module - 500µS - Advanced Features
<b>Special Purpose Sensor Modules</b>	
L10	Dual 10A Low Wattage Dimmer Module
L10F	Single 10A Low Wattage Fluorescent Dimmer Module
D15F	Single 15A Fluorescent Dimmer Module
D20F	Single 20A Fluorescent Dimmer Module
R15AF	Dual 15A Relay Module - Advanced Features
R20AF	Dual 20A Relay Module - Advanced Features
CC15	Dual 15A Constant Circuit Breaker Module
CC20	Dual 20A Constant Circuit Breaker Module
AFM	Air Flow Module

\*Half-density modules use two dimmer slots

### Control Modules

Model#	Description
CEM+	Control Electronics Module +

# Sensor+® Portable Packs

## Sensor+ Standard Series

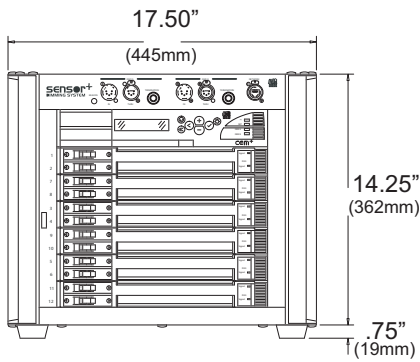
### PHYSICAL

#### Sensor Portable Pack Model Numbers

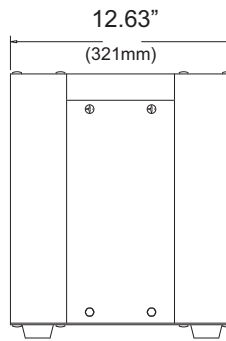
Model	Number of Dimmers	Dimmer Amperage	Load Connector	Multi-pin Option	Cam-Lok Pass Thru Option
SP	(3, 6, 12, or 24) 50A = 12 Max. 100A = 6 Max.	(15) = 1.8kW (20) = 2.4kW (50) = 6.0kW* (100) = 12.0kW*	(A) Edison (B) Stage Pin (C) Twist-Lock (V) Multi-pin	(V) Add multi-pin outputs (blank) None	(P) Cam-Lok Pass Thru Panel (blank) None

\* 50A and 100A packs available with stage pin connectors only

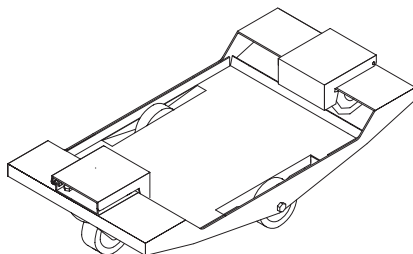
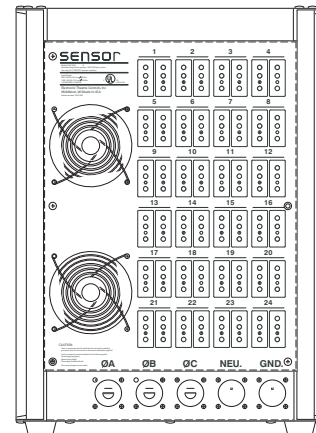
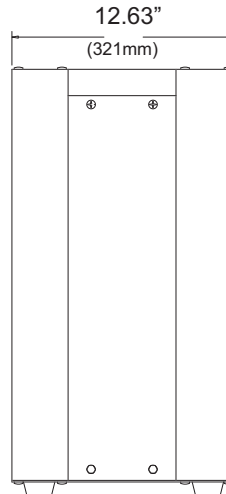
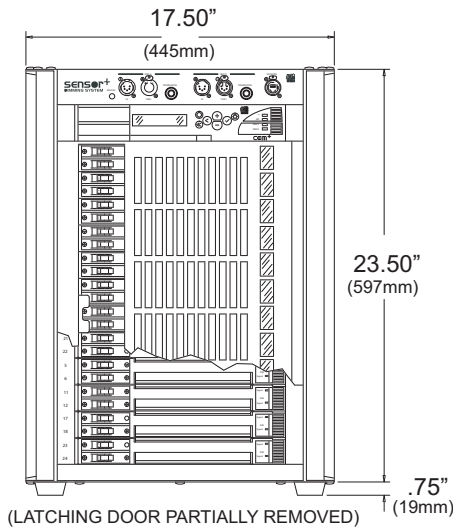
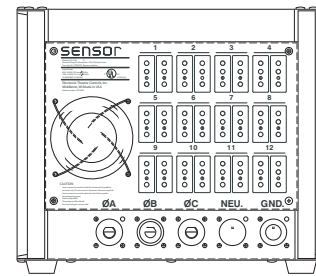
FRONT VIEW  
(LATCHING DOOR REMOVED)



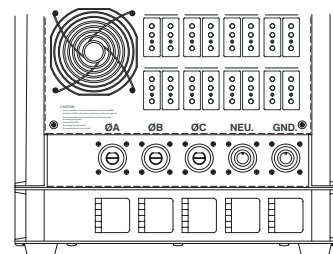
SIDE VIEW



REAR VIEW



Castered Cart

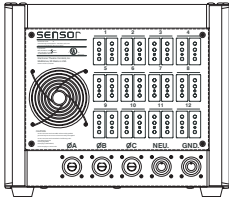


Cam-Lok  
Pass Thru Panel  
(Adds 3" to pack)

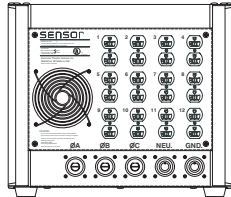
### BACK PANEL CONFIGURATIONS

#### 6-module Packs

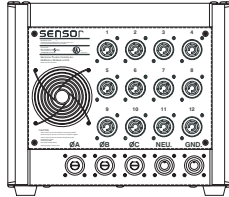
15A/20A Stage Pin outputs



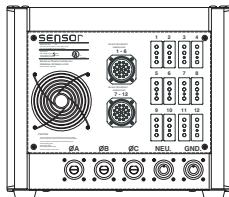
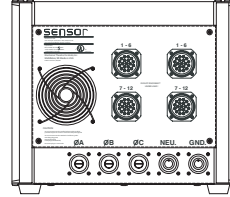
15A/20A Edison outputs



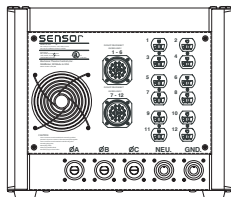
15A/20A Twist-Lock outputs



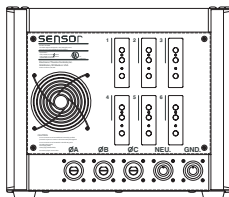
15A/20A Multi-pin outputs



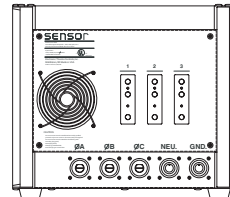
15A/20A Stage Pin & Multi-pin outputs



15A/20A Edison & Multi-pin outputs



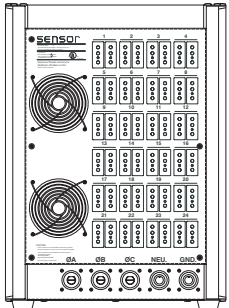
50A Stage Pin outputs



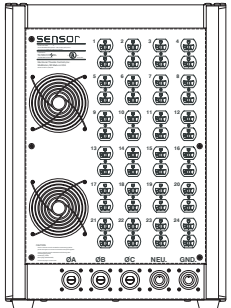
100A Stage Pin outputs

#### 12-module Packs

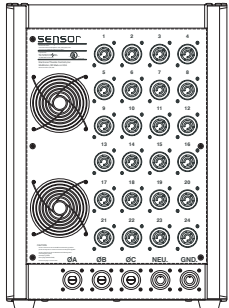
15A/20A Stage Pin outputs



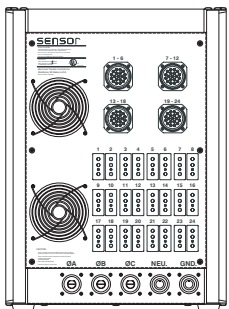
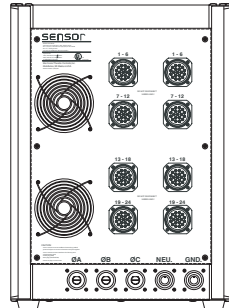
15A/20A Edison outputs



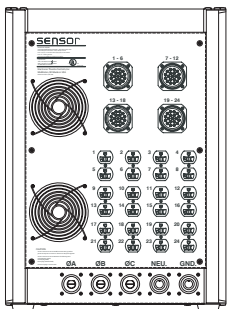
15A/20A Twist-Lock outputs



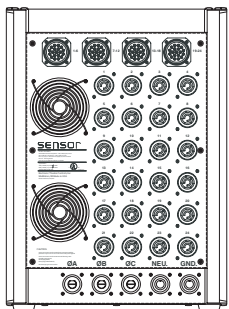
15A/20A Multi-pin outputs



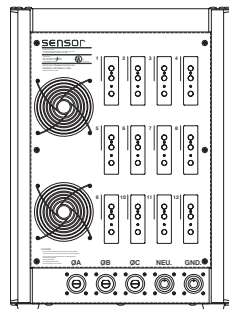
15A/20A Stage Pin & Multi-pin outputs



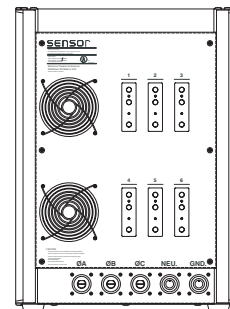
15A/20A Edison & Multi-pin outputs



15A/20A Twist-Lock & Multi-pin outputs



50A Stage Pin outputs



100A Stage Pin outputs



**Corporate Headquarters** ■ 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA ■ Tel +1 608 831 4116 ■ Fax +1 608 836 1736

**London, UK** ■ Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ■ Tel +44 (0)20 8896 1000 ■ Fax +44 (0)20 8896 2000

**Rome, IT** ■ Via Ennio Quirino Visconti, 11, 00193 Rome, Italy ■ Tel +39 (06) 32 111 683 ■ Fax +39 (06) 32 656 990

**Holzkirchen, DE** ■ Ohmstrasse 3, 83607 Holzkirchen, Germany ■ Tel +49 (80 24) 47 00-0 ■ Fax +49 (80 24) 47 00-3 00

**Hong Kong** ■ Room 605-606, Tower III Enterprise Square, 9 Sheung Yuest Road, Kowloon Bay, Kowloon, Hong Kong ■ Tel +852 2799 1220 ■ Fax +852 2799 9325

**Web** ■ www.etcconnect.com ■ Copyright © 2005 ETC. All Rights Reserved. All product information and specifications subject to change. 7052L1007 Rev. C Printed in USA 07/05

Sensor® products protected by U.S. Patent Numbers 5,323,088, 5,352,958 and 6,002,563; European Number 060333372; German Number 69203609; US and International Patents Pending.