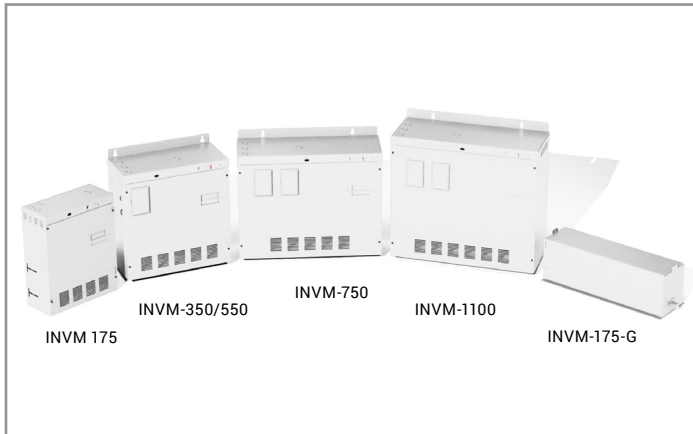


Project		Catalog #		Type	
Prepared by		Notes		Date	



Sure-Lites

INVM Series

Single Phase Mini Inverter

175, 350, 550, 750, 1100VA for LED, Fluorescent, Incandescent & Halogen

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing

Interactive Menu

- Order Information page 2
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Product Certification



Top Product Features

- Single phase emergency power inverter, 175VA/W to 1100VA/W
- Provides 90 minutes of emergency AC power
- Compatible with LED, fluorescent, incandescent & halogen lamp loads
- Small footprint, wall mount units
- PWM/MOSFET Technology provides pure sine wave power and 8ms to 25ms transfer time
- Maintenance free VRLA batteries
- Self-diagnostics standard
- Field selectable 120VAC or 277VAC input and output voltage
- UL924 listed
- 3-Year standard limited warranty includes all parts. Up to 10 years prorated warranty on batteries.

General Specifications

Electronics Module						Batteries 90 Minutes @ Full Load			
Model Number	Power Rating (VA/W)	Cabinet Dimensions (90 minute run)				90 Minutes Batteries (lbs/kg)	No. of Batteries	Voltage (VDC)	Total System Weight (lbs/kg)
		Width (in/cm)	Height (in/cm)	Depth (in/cm)	Weight (lbs/kg)				
INVM-175 Plenum Rated Grid Mount	175	23.875/60.6	7.5/19.1	8/20.3	23/10.4	25/11.4	1	12	48/21.8
INVM-175 Recessed Wall Mount	175	16.25/41.275	19.75/50.165	6.5/16.51	30/13.6	25/11.4	1	12	55/25
INVM-175 Standard Wall Mount	175	14.25/36.195	17.75/45.085	6.5/16.51	30/13.6	25/11.4	1	12	55/25
INVM-350	350	19/48.26	22/55.88	9.25/23.495	50/22.7	50/22.7	2	24	100/45.4
INVM-550	550	19/48.26	22/55.88	9.25/23.495	55/24.9	75/34.0	3	36	130/59.0
INVM-750	750	25.25/64.135	22/55.88	9.25/23.495	80/36.3	100/45.4	4	48	180/81.7
INVM-1100	1100	26/66.04	25.3/64.262	10.125/25.718	87/39.5	159/72.0	4	48	246/111.5

Order Information : INVM-175 Series

SAMPLE ORDER NUMBER: **INVM-175-W-1-W-TR**

Domestic Preferences	Series	VA/W	Color	Voltage Input/Output	Meter Panel	Output Breakers
[Blank] = Standard BAA = Buy American Act TAA = Trade Agreement Act BABA = Build America, Buy America	INVM = Mini Inverter, Single Phase INVM-H = Mini Inverter, Single Phase, (OSHPD Rated)	175 = 175VA	W = White G = Grey B = Black	Blank = Field Selectable 120VAC/120VAC or 277VAC/277VAC	1 = No Meter Panel (Standard) 2 = Internal Meter Panel and Advanced Testing & Logging 3 = Advance Testing & Logging, No Meter Panel	Blank = No Output Circuit Breakers For 175VA Models
Notes 1. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes 2. OSHPD rating for all standard wall mount only.	Notes 3. VA=W	Notes 4. Plenum Rated Grid Mount standard color is white		Notes 5. Options 2 and 3 only available on wallmount models.	

Mounting

Options

Warranty

Mounting	Options	Warranty
Blank = Standard Wall Mount G = Plenum Rated Grid Mount ⁶ W = Recessed Wall Mount	Can Pick Any D = Drip Top (NEMA 2) ^{7,8} F = Battery Charger Upgrade (12 hour recharge) ⁷ LF = TVSS Line Filter ⁷ S = Battery Strapping ⁷ R = Infrared Remote Test Switch RT = Remote Test Switch, Alarm & Indicator	Blank = 3-year standard warranty includes all parts. Up to 10 years prorated warranty on batteries ⁹ LVST = Start Up & Same Day Training TR = Training On Day Other Than Start Up
Notes 6. Grid/Ceiling mounted system standard color is white.	Notes 7. Not available for G = Plenum Rated Grid Mount option. 8. Not available for W = Recessed Wall Mount option.	Notes 9. Available on all models: 3 year standard warranty includes all parts. Up to 10 years prorated warranty on batteries.

Order Information : INVM-350, 550, 750, 1100 Series

SAMPLE ORDER NUMBER: **INVM-350-W-2-B2003-BAC-LVST**

Domestic Preferences	Series	VA/W	Color	Voltage Input/ Output	Meter Panel	Output Breakers
[Blank] = Standard BAA = Buy American Act TAA = Trade Agreement Act BABA = Build America, Buy America	INVM = Mini Inverter, Single Phase INVM-H = Mini Inverter, Single Phase, (OSHDP Rated)	350 = 350VA 550 = 550VA 750 = 750VA 1100 = 1100VA	W = White G = Grey B = Black	Blank = Field Selectable 120VAC/120VAC or 277VAC/277VAC	INVM-350, 550, 750, 1100 1 = No Meter Panel (Standard) For INVM-350, 550, 750 Only 2 = Internal Meter Panel and Advanced Testing & Logging ⁴ 3 = Advance Testing & Logging, No Meter Panel ⁴ For INVM-1100 Only ⁴ 4 = Internal Meter Panel and Advanced Testing & Logging 5 = Advanced Testing & Logging, No Meter Panel	Output Blank = None B = Normally On N = Normally Off ⁶ S = Switched ^{6,7,8}
Notes 1. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Buy America Build America Act (BABA). BABA is the minimum Government compliance requirement for the Buy America Build America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes 2. OSHPD rating for all standard wall mount only.	Notes 3. VA=W		Notes 3. INVM-1100 system only available with Meter Panel option 4 or option 5.	Notes 5. Maximum output breakers available: 350/550VA= 3 Output Breakers max 750/1100VA= 6 Output Breakers max 6. Normally off not available when using switched output. 7. Maximum of 3 switched outputs, each with 10-amp circuit breaker. 8. Type 1 systems cannot have C option with switched breakers. For Type 3, 4, 5 contact factory when multiple switched outputs are specified if O or C options are required.	

Mounting

Options (350, 550, 750, 1100VA Systems)

Warranty

Mounting	Options	Warranty ¹¹	
Blank = Standard Wall Mount B = Floor Mount ⁹	Available for Meter Panel Type 1 and Wall or Floor Mount Models Can Pick Any D= Drip Top (NEMA 2) F= Battery Charger Upgrade (12-Hour Recharge) LF= TVSS Line Filter R= Infrared Remote Test RT= Remote Test Switch, Alarm & Indicator S= Battery Strapping Can Pick One C= Status Monitoring Dry Form C Contacts ¹⁰ DR= Dimming Relay ¹⁰ (Breaks 0-10V Dimming Signal) O= Output Transfer Delay to Emergency ¹⁰ (Factory set at 6 seconds) ZM= Zone Monitoring (Quantity Must Be Specified; Maximum of 3)	Available for Meter Panel Type 2, 3, 4 and 5 Wall or Floor Mount Models Can Pick Any D= Drip Top (NEMA 2) F= Battery Charger Upgrade (12-Hour Recharge) LF= TVSS Line Filter R= Infrared Remote Test RT= Remote Test Switch, Alarm & Indicator S= Battery Strapping Can Only Pick One (Meter Panel Type 2, 3, & 4) C= Status Monitoring Dry Form C Contacts ¹⁰ DR= Dimming Relay ⁹ (Breaks 0-10V Dimming Signal) O= Output Transfer Delay to Emergency ¹⁰ (Factory set at 6 seconds) ZM= Zone Monitoring (Quantity Must Be Specified; Maximum of 3) BAC= BACnet Communications (MSTP) ¹¹ BIP= BACnet IP ¹¹ MIP= Modbus TCP/IP ¹¹ MOD= Modbus RTU ¹¹ Must Pick One for Type 3 RMP= Remote Meter HH= Handheld Meter	Blank = 3-year standard warranty includes all parts. Up to 10 years prorated warranty on batteries. ¹¹ LVST = Start Up & Same Day Training TR = Training On Day Other Than Start Up
Notes 9. Adds 2.7" to total system height	Notes 10. Multiple switched outputs or transfer delay limit available alarm contacts on Meter Panel Type 2 and 3 systems. For Meter Panel Type 1 systems, there are no alarm contacts when using switched outputs. Contact factory. 11. When ordering any Communication options an additional enclosure will be added to the top right of the unit with the following dimensions: 2.2"L x 10" W x 6.25"H.	Notes 11. Available on all models: 3 year standard warranty includes all parts. Up to 10 years prorated warranty on batteries.	

Product Specifications

Standard Features

- UL 924 Listed
- 90 Minutes of emergency run time with extended run time tables (see table below)
- PWM/MOSFET Technology provides pure sine wave emergency power with a 8ms to 24ms nobreak transfer time
- Single phase, uninterruptible power supply
- Long-life, maintenance free Valve Regulated Lead Acid (VRLA) batteries
- Microprocessor controlled, 3-stage battery charger
- Low battery voltage disconnect protects batteries against deep discharge
- Self-testing/self-diagnostics standard in all models
- High crest factor and inrush capabilities
- Operates Normally-On, Normally-Off and Switched fixtures
- Space-saving, durable steel compact cabinet

Warranty

- 3-Year standard limited warranty includes all parts.
- Up to 10 years prorated warranty on batteries

Specifications

- UL924 Listed
- Input voltage field selectable 120VAC or 277VAC,60Hz, single phase, 2-wire, plus ground
- Output voltage field selectable 120VAC or 277VAC, 60Hz, single phase, 2-wire, plus ground
- THD Input/output <10%/<3%
- Output Load Power Factor 0.5 Lag to 0.5 Lead
- Output power rating VA=W
- Overload threshold 110% continuous rating, 250% for 16 line cycles
- Crest factor <= 3.5
- 88~92% Efficiency
- 90 Minute Runtime Standard
- Up to 360 Minute Runtime w/lower loads (reference Run Time vs. Output Power Table Below)
- Long-life, maintenance-free Valve Regulated Lead Acid (VRLA)
- Storage/Transport Temperature:
 - -20°C to 70°C (40°F to 158°F)
- Operating Temperature:
 - 0°C to 40°C (32°F to 104°F)
- Low Audible Noise
 - 45dBA @ 1 meter distance during normal mode
 - 50dBA @ 1 meter distance during emergency mode

Optional Features

- Floor mounting available with optional NEMA 2 rated drip top
- Advanced testing and logging capabilities
- Infrared remote test switch
- Remote test switch with alarm indicator Transient voltage surge suppressor (TVSS) line filter
- Status monitoring dry form C contacts
- 12-Hour Battery Charger
- 0-10V Dimming relay option for dimming control applications
- Output circuit breakers available for 350W, 550W, 750W and 1100W models
- Output transfer delay to emergency (Factory set at 6 seconds)
- Zone monitoring
- Factory Startup and Training
- BACnet (MSTP) or (IP)
- MODbus (TCP/IP) or (RTU)
- For complete Options list see Ordering Information table above

Extended Run Time vs. Output Power

INVM Series Run Times Below with Output Power Loads

	INVM-175	INVM-350	INVM-550	INVM-750	INVM-1100
Run Time (Minutes)	Output Power (Watts)	Output Power (Watts)	Output Power (Watts)	Output Power (Watts)	Output Power (Watts)
120 Minutes	135W	275W	450W	575W	850W
180 Minutes	95W	200W	325W	425W	650W
240 Minutes	75W	150W	225W	300W	450W
300 Minutes	55W	125W	175W	250W	350W
360 Minutes	45W	100W	150W	200W	300W



INVM-175 | INVM-350/550 | INVM-750 | INVM-1100 | INVM-175-Grid Mount

Dimensions

INVM Series Dimensions					
Model Number	Power Rating (VA/W)	Cabinet Dimensions (90 minute run)			
		Width (in/cm)	Height (in/cm) ¹	Depth (in/cm)	Weight (lbs/kg)
INVM-175 Plenum Rated Grid Mount	175	23.875/60.6	7.5/19.1	8/20.3	23/10.4
INVM-175 Recessed Wall Mount	175	16.25/41.275	19.75/50.165	6.5/16.51	30/13.6
INVM-175 Standard Wall Mount	175	14.25/36.195	17.75/45.085	6.5/16.51	30/13.6
INVM-350	350	19/48.26	22/55.88	9.25/23.495	50/22.7
INVM-550	550	19/48.26	22/55.88	9.25/23.495	55/24.9
INVM-750	750	25.25/64.135	22/55.88	9.25/23.495	80/36.3
INVM-1100	1100	26/66.04	25.3/64.262	10.125/25.718	87/39.5

Three-year limited warranty, consult website for details: [Cooper Warranty](#)

1. Increase height of cabinet by 6.25 inches if communication option is ordered for additional enclosure.