SCUDO-C THREE PHASE INVERTER

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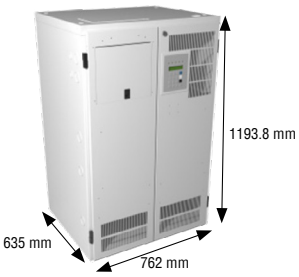
cUL listed to CSA C22.2 No. 141-15

Project Name: _____ Model Number: _____

Prepared By: _____ Date: _____



ELECTRONICS CABINET

MODELS 4.8kW - 16.7kW

ELECTRONICS CABINET

MODELS 24kW - 50kW

ELECTRONICS CABINET

MODELS 4.8kW - 16.7kW

ELECTRONICS CABINET

MODELS 24kW - 50kW

ORDERING GUIDE

SCU-C [ ]-[ ]-[ ]-[ ]-[ ]-[ ]

SERIES	INPUT	OUTPUT[1]	OUTPUT (KVA/ KW)	BATTERY	RUNTIME	OPTIONS (REFERENCE PAGE 5 OPTIONS MATRIX)	
SCU-C	P = 120/208 U = 277/480 W = 347/600	P = 120/208 U = 277/480 W = 347/600	4.8 kW 6 kW 8 kW 10 kW 12.5 kW 16.7 kW 24 kW 33 kW 40 kW 50 kW	S (Standard - VRLA) G[3] (20 Year Warranty Battery) C (Custom)	C(30 min) D(60 min) S(90 min) E(120 min)	**Output Breakers:** **Output:** **B** - Normally On **N** - Normally Off **Voltage/Poles:** **A** - 120V, 1-Pole **H** - 208V, 2-Poles **J** - 240V, 2-Poles **B** - 277V, 1-Pole **P** - 120/208V, 3-Poles **U** - 277/480V, 3-Poles **D** - 480V, 2-Poles **C** - 347V **O** - Other **Amp Rating:** 15, 20, 25, 30, 35, 40, 50, 60 ***Quantity[2]:** 01 - 36 (Qty Must Be Specified) **Warranty & On-Site Services[3]:** **2YW** - Start Up & Same Day Training **2YWT** - Start Up, Same Day Training and Full Run Test **5YP** - 5-Year Preventative Maintenance Plan **5YW-** 5-Year Extended Electronics Warranty **TR** - Training On Day Other Than Start Up Date	A - Remote Summary Alarm Panel BAT[4] - batteries and units are shipped together (uninstalled) or separately (3 months or 6 months) BCF - Battery Cabinet Fan BL - Output Circuit Breaker lock(s) BTM - Battery Temperature Monitor *C - Status Monitoring Contacts Dry Form C *DT - Drip Top (NEMA 2) EB - External Bypass, input/ output voltage must match and output breakers are limited to (1) only F - Fast Charge I - Inverter on Dry Form C Contacts L - Load Control Interface (Dimmer / Switch Bypass) M(BBM) - Internal Maintenance Bypass "Break Before Make" O - Output Transfer Delay P - Remote Status Panel (Status Alarms, Requires C Option) R - Remote Meter Panel S - Summary Dry Form C Contacts *T[2] - Output Trip Alarm (Qty Must Be Specified) M - Internal Maintenance Bypass V - Time Delay 15 Minutes Z - Seismic Bracing/Mounting ZM - Zone Monitoring (Quantity Must Be Specified) **PICK 1:** SEA - Serial to Ethernet Adapter BAC - BACnet Communications (MSTP) BIP - BACnet IP IoT - Inverter Connection Cloud Communication (Avail. 2024) MIP - Modbus TCP/IP MOD - Modbus RTU **ACCESSORIES** EMBP[5] - External Maintenance Bypass Switch SPARES - Spare Parts Kit SPAREF - Spare Fuse Kit

NOTE: *These items are mandatory in order configuration. [1]Standard input voltage is 4-Wire Wye. 3-Wire Delta Input requires external isolation transformer. [2]Maximum output breakers quantity available: 4.8kW to 16.7kW systems: 8 supervised; with top enclosure: 20 supervised; 24kW to 50kW systems: 30 supervised. [3]Warranty is 1yr standard includes all parts for electronics; Batteries are 1yr full, 9yrs prorated (unless 20yrs warranty battery is chosen then it would be 19yrs prorated). [4]If batteries are shipped separately additional charges will apply. [5]Maintenance bypass switch is a "make before break"

SCUDO-C THREE PHASE INVERTER

The SCUDO-C is a stand-by, three-phase, solid-state interruptible* power supply. This third generation of IGBT based inverter technology is compatible with any type of lighting load including incandescent, fluorescent, HID, quartz, LED, or halogen. It features a rock-solid design with 2x the ratings of all critical components and will work with lighting loads at cold starts for all normally off circuits or regular normally on circuits. The LVD disconnect for long power outages eliminates battery drain, while the SCUDO-C eliminates the maintenance costs of individual testing of unit equipment and battery powered ballasts. All tests and diagnostics are performed and recorded automatically.

FEATURES

- 98% Efficient (Typical)
- PWM/IGBT Technology & Microprocessor Control
- Internal Maintenance Bypass
- User Programmable with Password Protection
- Automatic Event & Alarm Log
- RS232 Communications Port
- Input Circut Breaker
- Low Audible Noise
- *2 milliseconds(ms) Transfer Time

SAFETY

- cUL listed to CSA C22.2 No. 141-15

SPECIFICATION

- Input 120/208, 277/480 or 347/600 VAC 3 Phase 4 Wire Wye Configuration
- Output 120/208, 277/480 or 347/600 VAC 3 Phase Wye or Delta configuration
- Output Load Power Factor 0.5 Lag to 0.5 Lead
- LED, Electronic & Magnetic Ballast Compatible
- Output Distortion Less Than 3% THD For Linear Loads
- Generator Compatibility
- Forced Air Cooling Only During Emergency Operation; No Filters Required
- 30, 60, 90 and 120-Minute Runtime Available
- Inverter Operating Temperature 0°C to 40 °C
- Battery Operating Temperature 20°C to 30°C

AUDIBLE ALARM

The SCUDO-C audible alarm will activate with any of the following conditions and automatically store the 50 most recent events.

- High Battery Charger Voltage
- Low Battery Charger Voltage
- High AC Input Voltage
- Low AC Input Voltage
- Near Low Battery Voltage
- Low Battery Voltage
- Load Reduction Fault
- High Ambient Temperature
- Inverter Fault
- Output Fault
- Output Overload

OPTIONAL FEATURES

- Enhanced Communications
  - Expanded Building Management Protocols
  - BACnet or Modbus Communications Interface
  - IoT Connect Cloud Software (Available 2024)
- External Maintenance Bypass
- Internal Maintenance Bypass
- Status Monitoring Dry Form C Contacts
- Summary Dry Form C Contacts
- Output Circuit Breakers
- Remote Meter Panel

APPLICATIONS

- Airports Terminals
- Apartment / Condominium Complexes
- Arenas / Stadiums
- Assisted Living Centers & Nursing Homes
- Casinos / Resorts
- Correctional Facilities
- Financial Institutions
- Government Buildings / Public Address Systems
- Hospitals / Clinics
- Hotels / Motels
- Industrial & Commercial Spaces
- Institutional
- Office Buildings
- Parking Structures / Garages
- Race Tracks
- Religious Facilities
- Restaurants
- Retail Department Stores & Malls
- Subways / Mass Transit Stations
- Theaters

BATTERIES

Batteries do not come pre-installed. They can be shipped together with the unit(s) or shipped separately at a later date (3 or 6 months) with additional charges.

SCUDO-C THREE PHASE INVERTER

MONITORING AND CONTROL

The SCUDO-C provides operation monitoring and control, audible alarms, LED indicators, and diagnostics. The front-mounted control panel includes a 2-line 20-character LCD display, a keypad to control and monitor the internal operation of the system. This allows the operator to easily "watch" system functions as they occur and check on virtually any aspect of the system's operation. Monitoring and control are microcontroller-based for accuracy and reliability. To ensure only authorized personnel can operate the unit, the system is multi-level password protected for all control functions and parameter changes.

METER FUNCTIONS

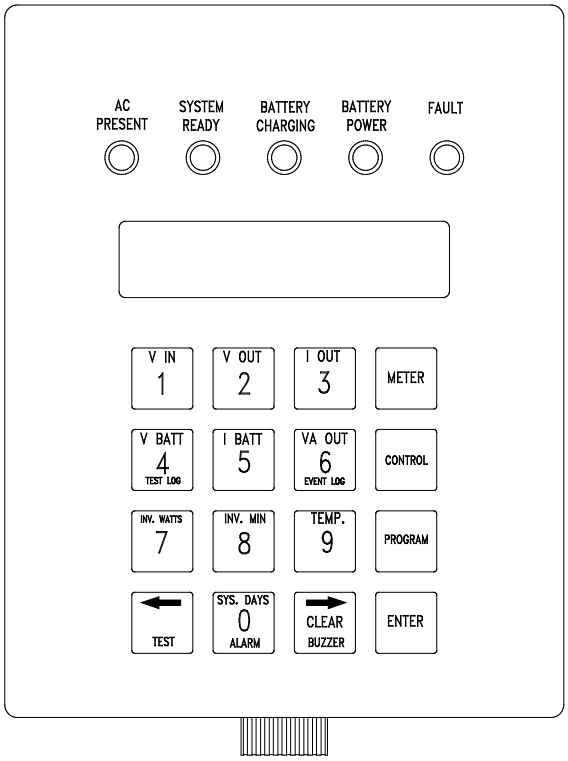
- AC Voltage Input
- AC Voltage Output
- AC Current Output
- Battery Voltage
- System Days
- Battery Current
- VA Output
- Inverter Watts
- Ambient Temperature
- Inverter Minutes

PROGRAM FUNCTIONS

- Date
- Time
- Month Test Date/Time
- Yearly Test Date/Time
- Load Fault Reduction Setting
- Low Battery Alarm
- Near Low Battery Alarm
- Low AC Voltage Alarm
- High AC Voltage Alarm
- Ambient Temperature Alarm

CONTROL FUNCTIONS

- Test Log & Event Log
  - 75 Logs Stored
  - Date, Time, Duration
  - Output Voltage
  - Output Current
  - Ambient Temperature
  - Alarms Preset
- Alarm Log
  - 75 Logs Stored
  - Date, Time, Alarm Type
  - Test
  - Buzzer On/Off



LED INDICATION

The front panel with integrated LEDs, allows a quick check of the CIS operating status.

- AC Present (Green)
- System Ready (Green)
- Battery Charging (Yellow)
- Battery Power (Yellow)
- Fault (Red)

MANUAL AND PROGRAMMABLE TESTING

SCUDO-C incorporates a manual test function and two automatic test modes. The system will perform a programmable, self-diagnostic monthly test for 5 minutes. The monthly test is preset for the 15th of every month and the user can program the event time of day. The yearly self-diagnostic test is for the full rated run time and the user can program the time of the day the event is to take place. The microcontroller automatically records the last 75 test events in its own separate test result log.

SCUDO-C THREE PHASE INVERTER

GENERAL SPECIFICATIONS		
INPUT	Voltage	120/208, 270/480 or 347/600 AC-phase 4-wire +10%-15%
	Input Frequency	60HZ, +/- 3%, 50HZ available upon request
	Synchronizing Slew Rate	1Hz per Second nominal
	Protection	Input Circuit Breaker
	Voltage Harmonic Distortion	<10% (For Resistive Load)
	Power Factor	0.5 lag/lead
OUTPUT	Voltage	120/208, 270/480 or 347/600 AC 3-phase 4-wire
	Static Voltage	load current change +/- 4%, battery discharge +/- 4%
	Dynamic Voltage	+/- 3% for +/-25% load step change, +/-6% for a 50% load step change
	Harmonic Distortion	<3% THD for linear load
	Output Frequency	60Hz +/-0.05Hz during emergency mode
	Load Power Factor	0.5 lag to 0.5 lead
	Inverter Overload	115% continuous rating; 150% for 2.5 seconds; 250% for 3 line cycles
	Protection	Output Circuit Breaker
BATTERY	Type	Valve-regulated lead-acid (VRLA)
	Charger	Microcontroller two stage charger (recharge - 24HR)
	Protection	Automatic low-battery disconnect; automatic restart upon utility return
	Disconnect	Fuse / Circuit Breaker
ENVIRONMENTAL	Altitude	<3000m (10,000 feet) above sea level without derating
	Operating Temperature	Inverter: 0°C to 40°C Battery: 20°C to 30°C
	Storage Temperature	-20°C to 70°C (electronics only)
	Relative Humidity	<90% (non-condensing)
GENERAL	Design	Stand-By IPS, PWM Inverter type utilizing IGBT technology with 2ms transfer time
	Generator Input	Compatible with generators
	Control Panel	Microcontroller 2 x 20-character display with touch pad controls & functions 5 LED indicators & alarm with status indicator
	Metering	Input & Output voltage, Battery Voltage, Battery & Output Current, Output VA, Temperature, Inverter Wattage
	Alarms	High/Low Battery Charger Fault, Near Low Battery, Low Battery, Load Reduction Fault, Output Overload High/Low AC Input Volts, High Ambient Temperature, Inverter Fault, Output Fault, Optional Circuit Breaker Trip
	Communications	RS-232 port (DB9)
	Manual Maintenance Bypass	Standard internal
	Alarm Contacts	Optional Summary form “C” Contacts
	Warranty	1 year standard warranty and up to 9 Years prorated warranty on batteries. (Optional extended warranties, start up and service plans available)
PHYSICAL	Cabinet	Freestanding NEMA Type 1
	Cooling	Forced Air, during emergency mode
	Cable Entry	Top or Side
	Access	Front

SCUDO-C THREE PHASE INVERTER

OPTIONS MATRIX

Option Code	Option Name	Description
A	Remote Summary Alarm Panel	LED indicator and Sound alert
BAT	Battery Shipment	Batteries do not come pre-installed. They can be shipped together with the unit(s) or shipped separately at a later date (3 or 6 months) with additional charges.
BCF	Battery Cabinet Fan	The fan in battery cabinets (3 phase only) is activated whenever the system goes into emergency mode
BTM	Battery Temperature Monitor	1. Warning alarm: warns when the battery temperature is getting too high 2. Absolute alarm: when the temperature reaches high temp this shuts down the string of batteries where the hot battery is.
BL	Output Circuit Breaker lock(s)	Allows customer to lock OCB in on or off position
C	Status Monitoring Contacts	5 form C dry contacts: 1. System in Bypass 2. Summary Alarm: any alarm in the FMP 3. Output trip alarm 4. Utility failure 5. Inverter on
DT	Drip Top (NEMA 2)	The metal piece is designed to direct falling water away from the unit
EB	External Bypass	Input/ output voltage must match and output breakers are limited to (1) only
F	Fast Charge	Allows the system to recharge in 12 hours from LVD
I	Inverter on Dry Form C Contact	Form C dry contact which opens when the inverter is on
L	Load Control Relay Dimmer or Bypass Switch	Equal to an LVS EPC-2-D
M	Internal Maintenance Bypass	Toggle switch designed to disconnect inverter from the electrical system for maintenance (Make before break)
M(BBM)	Internal Maintenance Bypass Break Before Make	Same as above except break before make
O	Output Transfer Delay	A device designed to delay transfer adjustable 0-7.5 seconds, factory set at 3 seconds. Used when the control system cannot detect the fast transfer
P	Remote Status Panel (Status alarms, Requires C Option)	Single gang box showing the status of alarms requires a C option
R	Remote Meter Panel	Full-size meter panel mounted remotely in a NEMA 1 enclosure
S	Summary Fault Form C contacts	Relay contact showing any alarm
SEA	Serial to Ethernet Adapter	RS232 to Ethernet adapter
T	Output Trip Alarm (Qty Must Be Specified)	Alarms when any OCB is tripped, must be specified to the output breaker qty
V	Time Delay 15 minutes	Delays transfer back to utility power for up to 15 minutes, not used much, mostly for HID
Z	Seismic Mounting	Instructions and hardware for mounting systems in standard seismic applications
ZM	Zone Monitoring (Qty must be specified)	3 zones max, used to monitor other phases in 3 phase utility system or to monitor external CB panels. Not necessary with normally on OCB's.
BAC	BACnet Communication	"MSTP" allow the upload of FMP data via an RS232 intermediate device. This info can then be downloaded to the customer's device.
BIP	BACnet IP	Same as above except allows direct communication via IP
IoT	IoT inverter Connect Cloud communication	A system using the Cloud to allow monitoring of multiple systems in one location. (Available 2024)
MIP	Modbus TCP/IP	Same as BACnet IP
MOD	Modbus RTU	Same as BACnet MSTP
2YW	Startup & Same day training	Factory start-up which extends electronics warranty by an additional year
2YWT	Startup & Same day training and full run test	Same as 2YW. Includes full load test using customer load or load bank
5YP	5-Year Service Plan	Annual (once or twice) visit to perform preventative maintenance
5YW	5-Year Extended Electronics Warranty	Same as 2YW except extend the electronics warranty and additional 3 years (5 total)
TR	Training (if required on a separate day)	Only used if required by the owner
EMBP	External Maintenance bypass switch	Maintenance bypass switch mounted external to the system. Can not use with OCB's
SPARES	Spare parts kit	Complete parts kits including PC boards
SPAREF	Spare fuses	Spare fuses only

SCUDO-C THREE PHASE INVERTER

DIMENSIONS

30 MIN

POWER RATING (KW)	VOLTAGE IN-OUT (VAC)	HEAT LOSS (BTU)	ELECTRONICS CABINET DIMENSIONS				BATTERIES		BATTERY CABINET DIMENSIONS				TOTAL SYSTEM WEIGHT
			WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	NO. OF BATTERIES	WEIGHT (LBS)	WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	
4.8	120/208 or 277/480	327	762	1193.8	635	535	12	437	444.5	1574.8	635	285	1257
4.8	347/600	327	762	1752.6	635	725	12	437	444.5	1574.8	635	285	1447
6.0	120/208 or 277/480	409	762	1193.8	635	535	15	546	444.5	1574.8	635	285	1366
6.0	347/600	409	762	1752.6	635	725	15	546	444.5	1574.8	635	285	1556
8.0	120/208 or 277/480	546	762	1193.8	635	535	20	728	444.5	1574.8	635	285	1548
8.0	347/600	546	762	1752.6	635	725	20	728	444.5	1574.8	635	285	1738
10.0	120/208 or 277/480	682	762	1193.8	635	639	12	860	577.85	1955.8	635	375	1874
10.0	347/600	682	762	1752.6	635	851	12	860	577.85	1955.8	635	375	2086
12.5	120/208 or 277/480	853	762	1193.8	635	639	15	1076	577.85	1955.8	635	375	2090
12.5	347/600	853	762	1752.6	635	873	15	1076	577.85	1955.8	635	375	2324
16.7	120/208 or 277/480	1139	762	1193.8	635	639	20	1434	577.85	1955.8	635	375	2448
16.7	347/600	1139	762	1752.6	635	873	20	1434	577.85	1955.8	635	375	2682
24.0	120/208 or 277/480	1637	1117.6	1828.8	787.4	1250	40	2868	1219.2	1828.8	787.4	650	4768
24.0	347/600	1637	1879.6	1828.8	787.4	1547	40	2868	1219.2	1828.8	787.4	650	5065
33.0	120/208 or 277/480	2251	1117.6	1828.8	787.4	1250	40	2868	1219.2	1828.8	787.4	650	4768
33.0	347/600	2251	1879.6	1828.8	787.4	1585	40	2868	1219.2	1828.8	787.4	650	5103
40.0	120/208 or 277/480	2728	1117.6	1828.8	787.4	1460	60	4302	1219.2	1828.8	787.4	700	6462
40.0	347/600	2728	1879.6	1828.8	787.4	1827	60	4302	1219.2	1828.8	787.4	700	6829
50.0	120/208 or 277/480	3410	1117.6	1828.8	787.4	1460	60	4302	1219.2	1828.8	787.4	700	6462
50.0	347/600	3410	1879.6	1828.8	787.4	1827	60	4302	1219.2	1828.8	787.4	700	6829

60 MIN

POWER RATING (KW)	VOLTAGE IN-OUT (VAC)	HEAT LOSS (BTU)	ELECTRONICS CABINET DIMENSIONS				BATTERIES		BATTERY CABINET DIMENSIONS				TOTAL SYSTEM WEIGHT
			WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	NO. OF BATTERIES	WEIGHT (LBS)	WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	
4.8	120/208 or 277/480	327	762	1193.8	635	535	12	860	762	1193.8	635	210	1605
4.8	347/600	327	762	1752.6	635	725	12	860	762	1193.8	635	210	1795
6.0	120/208 or 277/480	409	762	1193.8	635	535	15	1076	762	1193.8	635	210	1821
6.0	347/600	409	762	1752.6	635	725	15	1076	762	1193.8	635	210	2011
8.0	120/208 or 277/480	546	762	1193.8	635	535	20	1434	762	1193.8	635	232	2201
8.0	347/600	546	762	1752.6	635	725	20	1434	762	1193.8	635	232	2391
10.0	120/208 or 277/480	682	762	1193.8	635	639	24	1721	762	1193.8	635	232	2592
10.0	347/600	682	762	1752.6	635	851	24	1721	762	1193.8	635	232	2804
12.5	120/208 or 277/480	853	762	1193.8	635	639	30	2151	1524	1193.8	635	420	3210
12.5	347/600	853	762	1752.6	635	873	30	2151	1524	1193.8	635	420	3444
16.7	120/208 or 277/480	1139	762	1193.8	635	639	40	2868	1524	1193.8	635	464	3971
16.7	347/600	1139	762	1752.6	635	873	40	2868	1524	1193.8	635	464	4205
24.0	120/208 or 277/480	1637	1117.6	1828.8	787.4	1250	60	4302	1219.2	1828.8	787.4	700	6252
24.0	347/600	1637	1879.6	1828.8	787.4	1547	60	4302	1219.2	1828.8	787.4	700	6549
33.0	120/208 or 277/480	2251	1117.6	1828.8	787.4	1250	80	5736	2438.4	1828.8	787.4	1300	8286
33.0	347/600	2251	1879.6	1828.8	787.4	1585	80	5736	2438.4	1828.8	787.4	1300	8621
40.0	120/208 or 277/480	2728	1117.6	1828.8	787.4	1460	100	7170	2438.4	1828.8	787.4	1300	9930
40.0	347/600	2728	1879.6	1828.8	787.4	1827	100	7170	2438.4	1828.8	787.4	1300	10297
50.0	120/208 or 277/480	3410	1117.6	1828.8	787.4	1460	120	8604	2438.4	1828.8	787.4	1400	11464
50.0	347/600	3410	1879.6	1828.8	787.4	1827	120	8604	2438.4	1828.8	787.4	1400	11831

SCUDO-C THREE PHASE INVERTER

90 MIN

POWER RATING (KW)	VOLTAGE IN-OUT (VAC)	HEAT LOSS (BTU)	ELECTRONICS CABINET DIMENSIONS				BATTERIES		BATTERY CABINET DIMENSIONS				TOTAL SYSTEM WEIGHT
			WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	NO. OF BATTERIES	WEIGHT (LBS)	WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	
4.4	120/208 or 277/480	303	762	1193.8	635	535	12	860	762	1193.8	635	210	1605
4.4	347/600	303	762	1752.6	635	725	12	860	762	1193.8	635	210	1795
5.6	120/208 or 277/480	379	762	1193.8	635	535	15	1076	762	1193.8	635	210	1821
5.6	347/600	379	762	1752.6	635	725	15	1076	762	1193.8	635	210	2011
7.4	120/208 or 277/480	505	762	1193.8	635	535	20	1434	762	1193.8	635	232	2201
7.4	347/600	505	762	1752.6	635	725	20	1434	762	1193.8	635	232	2391
9.3	120/208 or 277/480	631	762	1193.8	635	639	24	1721	762	1193.8	635	232	2592
9.3	347/600	631	762	1752.6	635	851	24	1721	762	1193.8	635	232	2804
11.6	120/208 or 277/480	789	762	1193.8	635	639	30	2151	1524	1193.8	635	420	3210
11.6	347/600	789	762	1752.6	635	873	30	2151	1524	1193.8	635	420	3444
15.4	120/208 or 277/480	1054	762	1193.8	635	639	40	2868	1524	1193.8	635	464	3971
15.4	347/600	1054	762	1752.6	635	873	40	2868	1524	1193.8	635	464	4205
22.2	120/208 or 277/480	1514	1117.6	1828.8	787.4	1250	60	4302	1219.2	1828.8	787.4	700	6252
22.2	347/600	1514	1879.6	1828.8	787.4	1547	60	4302	1219.2	1828.8	787.4	700	6549
30.5	120/208 or 277/480	2082	1117.6	1828.8	787.4	1250	80	5736	2438.4	1828.8	787.4	1300	8286
30.5	347/600	2082	1879.6	1828.8	787.4	1585	80	5736	2438.4	1828.8	787.4	1300	8621
37.0	120/208 or 277/480	2523	1117.6	1828.8	787.4	1460	100	7170	2438.4	1828.8	787.4	1300	9930
37.0	347/600	2523	1879.6	1828.8	787.4	1827	100	7170	2438.4	1828.8	787.4	1300	10297
46.3	120/208 or 277/480	3154	1117.6	1828.8	787.4	1460	120	8604	2438.4	1828.8	787.4	1400	11464
46.3	347/600	3154	1879.6	1828.8	787.4	1827	120	8604	2438.4	1828.8	787.4	1400	11831

120 MIN

POWER RATING (KW)	VOLTAGE IN-OUT (VAC)	HEAT LOSS (BTU)	ELECTRONICS CABINET DIMENSIONS				BATTERIES		BATTERY CABINET DIMENSIONS				TOTAL SYSTEM WEIGHT
			WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	NO. OF BATTERIES	WEIGHT (LBS)	WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)	WEIGHT (LBS)	
4.1	120/208 or 277/480	278	762	1193.8	635	535	12	860	762	1193.8	635	210	1605
4.1	347/600	278	762	1752.6	635	725	12	860	762	1193.8	635	210	1795
5.1	120/208 or 277/480	348	762	1193.8	635	535	15	1076	762	1193.8	635	210	1821
5.1	347/600	348	762	1752.6	635	725	15	1076	762	1193.8	635	210	2011
6.8	120/208 or 277/480	464	762	1193.8	635	535	20	1434	762	1193.8	635	232	2201
6.8	347/600	464	762	1752.6	635	725	20	1434	762	1193.8	635	232	2391
8.5	120/208 or 277/480	580	762	1193.8	635	639	24	1721	762	1193.8	635	232	2592
8.5	347/600	580	762	1752.6	635	851	24	1721	762	1193.8	635	232	2804
10.6	120/208 or 277/480	725	762	1193.8	635	639	30	2151	1524	1193.8	635	420	3210
10.6	347/600	725	762	1752.6	635	873	30	2151	1524	1193.8	635	420	3444
14.2	120/208 or 277/480	968	762	1193.8	635	639	40	2868	1524	1193.8	635	464	3971
14.2	347/600	968	762	1752.6	635	873	40	2868	1524	1193.8	635	464	4205
20.4	120/208 or 277/480	1391	1117.6	1828.8	787.4	1250	60	4302	1219.2	1828.8	787.4	700	6252
20.4	347/600	1391	1879.6	1828.8	787.4	1547	60	4302	1219.2	1828.8	787.4	700	6549
28.1	120/208 or 277/480	1913	1117.6	1828.8	787.4	1250	80	5736	2438.4	1828.8	787.4	1300	8286
28.1	347/600	1913	1879.6	1828.8	787.4	1585	80	5736	2438.4	1828.8	787.4	1300	8621
34.0	120/208 or 277/480	2319	1117.6	1828.8	787.4	1460	100	7170	2438.4	1828.8	787.4	1300	9930
34.0	347/600	2319	1879.6	1828.8	787.4	1827	100	7170	2438.4	1828.8	787.4	1300	10297
42.5	120/208 or 277/480	2899	1117.6	1828.8	787.4	1460	120	8604	2438.4	1828.8	787.4	1400	11464
42.5	347/600	2899	1879.6	1828.8	787.4	1827	120	8604	2438.4	1828.8	787.4	1400	11831