

Stratta 1

Single Phase, 2.1 to 17kW

POWERFUL SINGLE PHASE SOLUTION

Are you looking for a high capacity, single enclosure lighting inverter? The Stratta 1 is our most compatible inverter.

It is made to power almost all emergency lighting needs. A solution that is always on and always monitored. Stratta 1 monitors not only utility power but also the internal system.



■ features

- 90 Minute Backup Design at Full Load
- Listed to UL924 and UL1778 Standards
- Compatible with Self-Ballast Fluorescent, Incandescent, Halogen, Quartz Re-strike, HID, HPS and LED
- True Online, Double Conversion, Technology with **Zero Transfer Time**
- Pure Sine Wave
- TVSS Input Transient Voltage Surge Suppressor (Class C)

■ optional features

- Global Monitoring (GMS):
 - GMS 1: Local Event Logger with Memory (PC Connections via RS232 and RS485) 500 Events
 - GMS 2: Remote Monitoring with Local Network Connection (WiFi, Ethernet or Modem)
 - GMS 3: Remote Monitoring with Cellular Network Connection
- Remote Status Panel
- Battery Monitoring (String or Per Battery)
- Dry Contacts Normally Open
- Form C Dry Contact with N/O or N/C Field Selectable for Desired Signal
- Main Input & Output Circuit Breaker (UL489)
- Normally ON and/or Normally OFF Auxiliary Breakers (12 or 24 MAX) - Depending on Cabinet Size
- Custom Rated KAIC breakers
- 65 KAIC Total System Short Circuit Current Rating
- Thermal Runaway Control
- Internal or External Maintenance Bypass Switch
- Seismic Bracket
- High Temperature Batteries
- Long Life Battery 20 Year Warranty
- Time Delayed Transfer to Battery
- Time Delayed Transfer from Battery
- Maintenance:
 - Extended Warranty
 - Preventative Maintenance Plans



SPECIFICATIONS

Single Phase 2.1 to 17kW

*All units are 90 minutes emergency backup time @ full load. Consult factory for backup times (up to 120 minutes).

SAFETY STANDARDS

UL924, UL1778, NFPA101, NFPA70, NEMA, and ANSI, Listed to UL924 and UL1778 Standards

INPUT

AC Voltage: -15% / +10%

Frequency: Slew rate of 0.2Hz/sec

OUTPUT

AC Voltage Regulation: $\pm 5\%$,

2 wires plus-ground for single voltage outputs,

3 wires plus-ground for dual voltage outputs

Wave Form: Sinusoidal

Harmonic Distortion: < 5% THD; < 3% Single Harmonic

PROTECTION

Overload: 115% for 5-10 min, 125% for 30 sec

BATTERY

Battery: Sealed, maintenance free VRLA lead acid battery

Recharge Time: Conforms to UL standards

NOISE ISOLATION

Common Mode: -120 dB

Transverse Mode: -60 dB

ENVIRONMENT

Operating Temp: 0° to 40°C (32° - 104°F)

Battery: 20° to 25°C (68° - 77°F)

Electronic Storage Temp: -20° to 70°C (-4° - 158°F)

Humidity: 0% to 95% (non-condensation)

Altitude: Up to 10,000 ft

DIMENSIONS

Cabinet I

39"W x 48"H x 18"D

Cabinet II

39"W x 68"H x 18"D

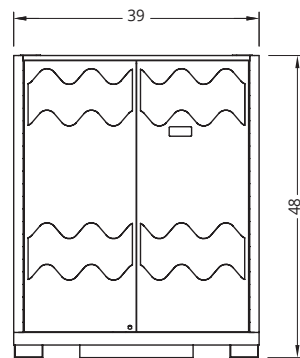
Cabinet III

51"W x 70"H x 30.5"D

*120min 17kW units require two Cabinet IIIs

Cabinet I

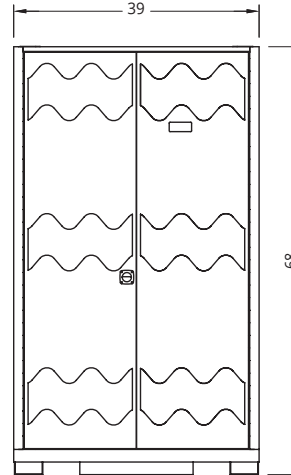
90min: 2.1 to 3kW



Cabinet II

90min: 3 to 8kW

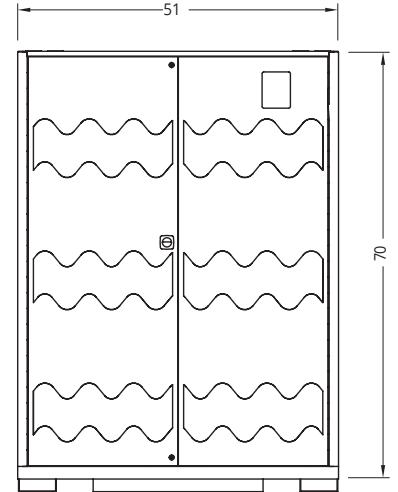
120min: 3 to 5kW



Cabinet III

90min: 10 to 17kW

*120min: 6 to 15kW



MODEL NUMBERS

Model number will be reflected on name plate, not designed for ordering or specifications

Unit Name	Capacity (kW)	Input (Volts)	Output (Volts)
ST1 Stratta 1	C2 2.1 kW	V1 120V	V1 120V
	C3 3 kW	V20 208V	V20 208V
	C5 5 kW	V24 240V	V24 240V
	C6 6 kW	V27 277V	V27 277V
	C8 8 kW	V4 480V	V1/24* 120V/240V
	C10 10 kW		V1/27 120V/277V
	C12 12.5 kW		V27/4 277V/480V
	C15 15 kW		V1/24/27 120V/240V/277V
	C17 17 kW		

* We recommend 120V/240V for any 120V output needs. Provides the ability to feed two hots to a panel

BTU / WEIGHT

Capacity (kW)	*Weight (lb)	
	90min	120min
2.1	826	982
3	1066	1020
5	1284	1524
6	1284	1596
8	1464	1833
10	2870	2913
12.5	3777	3657
15	4512	5300
17	4512	5800

Approximately 1000 BTUs per hour for every 3 kilowatts. The approximation is worst case BTU output, measured during recharge following a discharge.

WARRANTY:

Standard warranty is eighteen (18) months from ship date or twelve (12) months from start up, whichever occurs first. Optional second year warranty with factory performed preventative maintenance available.

ORDERING INFORMATION

PROJECT NAME :

REP / DISTRIBUTOR :

ELECTRICAL DESIGNER / ENGINEER :

DATE :

Example: ST1 C3 V1V27 SB N08V140 FT LCR20A(3) BM GMS3 PM2W

MODEL
SERIES

ST1

kW
RATING

C2: 2.1 kW
C3 3 kW
C5 5 kW
C6 6 kW
C8 8 kW
C10 10 kW
C12 12.5 kW
C15 15 kW
C17 17 kW

VOLTAGE
INPUT/OUTPUT

INPUT	OUTPUT
V1* - 120V	V1 - 120V
V20- 208V	V20 - 208V
V24 - 240V	V24 - 240V
V27 - 277V	V27 - 277V
V4 - 480V	V1/24 - 120/ 240V
	V27/4 - 277/ 480V
	V1/27 - 120/ 277V
	V1/24/27** - 120/ 240/ 277V

* 120V input only available up to 8 kW output
** Consult factory for 3 voltage output systems

BATTERY TYPE

SB: Standard @ 90 min
LB*: Long Life @ 90 min
HB*: Hi Temp @ 90 min
UB*: USA @ 90 min
(required for BAA and BABA compliance)
SB2H: Standard @ 120 min
LB2H*: Long Life @ 120 min
HB2H: Hi Temp @ 120 min
UB2H: USA @ 120 min
(required for BAA and BABA compliance)

*Long Life 20-year Pro Rata
Battery

AUX BREAKERS (UL1077)

AUX BREAKERS EXAMPLE

N 08 V1 40

OUTPUT

N: Normally ON
F: Normally OFF
FTD**: Normally OFF
w/ Time Delay

BREAKERS

01 - 12* (Max 12)
Cabinet I
01 - 24* (Max 24)
Cabinets II & III

* Max poles will depend on cabinet size
** Allows you to have individual circuits remain on
battery even when utility is restored for a period of time;
Must be a normally OFF circuit
***Consult factory for custom amp rating

AMP RATING***
10, 15, 20, 25,
30, 40, 50, 60
STANDARD: 20 AMP

VOLTAGE

V1 - 120V, 1P
V20 - 208V, 2P
V24 - 240V, 2P
V27 - 277V, 1P
V4 - 480V, 2P

OPTIONS

PICK ANY:

X: Seismic Mounting
LCR20A(#): Load Control Relay,
Single Flex Stud Mounting (#): Qty
LCR20(#): Load Control Relay, No Flex (#): Qty
MB: Internal Maintenance Bypass
EB: Ex. Maintenance Wraparound Bypass Switch SCCR:
65 KAIC Total System Short Circuit Current Rating IB:
Input Breaker (UL 489)
OB: Output Breaker (UL 489)
DS: Drip Shield Hood
CL: Corbin Lock

BATTERY OPTIONS

FC: Fast Charge (12 hrs or less)
TR: Thermal Runaway Gassing Control without Battery
Disconnect (IFC 1206.2)

MONITORING OPTIONS

DO: Dry Contacts Open Signal
DCT2: Dual, Open and Closed Dry Contacts
A: Local Audible Alarm with Silencer Switch
CP: RS232 and RS485 Connecting Port
P: Remote Status Panel (Hard Wired w/ Extended Cable)

SYSTEM TRANSFER

FT: Fast Transfer with 2 Milliseconds
TD(B): User Selectable Time Delay to Battery for
Capacitor Discharge During EM (45 Milliseconds Std)
TD(U): User Selectable Time Delay Back to Utility
During Power Restoration for Facility Inrush

BATTERY MONITORING SYSTEM (BMS) - PICK ONE:

SM: String Monitoring
BM: Battery Monitoring
BMTS: Temperature Sensor

GLOBAL MONITORING SYSTEM (GMS) - PICK ONE:

GMS 1: Local Accessible Event Logger with Unit Audible Alarm
GMS 2: Testing Logs with Remote Accessibility through Local
Network
GMS 3: Testing Logs with Remote Accessibility through Local
Network and GPRS for Cellular Text Alerts

BAA: Buy American Act Compliant
BABA: Build America Buy America Act Compliant

WARRANTY
& SERVICES

PICK ANY:

SSW: Standard Onsite
Startup and Warranty

ADDITIONAL:

PM1W: Additional One
Year Extended Warranty
(Includes First Year Preventative
Maintenance)

PM (2-3)W: Onsite
Preventative Maintenance
(Once Per Year, up to 3 Years)

ORDER ADD-ONS

T4H: 4 Hour Training at
Time of Start Up

T8H: Additional Training
day up to 8 hours