



P.O. Box 1960 • Edmond, Oklahoma 73083-1960
2701 West I-35 Frontage Road • Edmond, Oklahoma 73013
Telephone # (405) 359-2500 • Fax # (405) 359-1071 • www.ompacom
“Building a brighter future”

Specification for Unit 1 Inverter and Battery Charger

Subject: Unit 1 Inverter and Battery Charger

This specification will be a Turn-Key Project. In accordance we request that the bidder supply all materials, labor, supervision, and all necessary to remove and install inverter, battery chargers, backup power transformer, and AC panel. The project must be completed on or before December 15th, 2024.

The successful Bidder shall provide all Labor, Material, Equipment, and Tooling to complete the Project, according to the following:

Work	Provided by Party Responsible:
Safety Training	OMPA
LOCKOUT/TAGOUT	OMPA
Hot work Permits	OMPA
Confined Space Permits	OMPA
Safety Oversight at Project	OMPA
Bathroom (Porta Johns)	Bidder
Washup Facility	Bidder
Safety Harness and all Safety Gear	Bidder
Scaffolding	Bidder
Crane	Bidder
Fork Truck	Bidder
Manlift	Bidder
Bonding Material	Bidder
Nuts, Bolts, Hardware	Bidder
Dumpster and disposal of used material	Bidder

The Successful Bidder shall be required to attend OMPA Safety Training prior to work commencing on the project. All employees will be required to wear Flame Resistant Clothing (FR), Safety Boots, Hardhats, Gloves, and Safety Glasses. Outerwear such as coats and coveralls shall be FR as well.



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Work Scope Requested

Unit 1 Inverter and Battery Charger

Successful bidder will remove and install Unit #1 inverter, battery chargers, backup power transformer, and 120V AC UPS Panel 1 in accordance with the National Electrical Code (NEC). The purpose of the inverter and battery chargers is to supply power from a bank of batteries to 120V AC UPS Panel 1 API-PPL-1 and 125V DC Panel 1 1APH-PPL-1 for uninterrupted power (See drawing 18078-1UUU-E1701 below). The battery chargers are redundant and share the load between the 2 of them. A secondary 480V AC supplies the backup transformer (480/120) and will automatically transfer from the inverter in the case of battery power loss. While the equipment is being removed and installed the bidder will be responsible for keeping power supplied to the 125V DC panel and 120V AC UPS Panel 1. The bidder will be responsible for the removal of any equipment or structure to gain access to the UPS. If the siding is removed from the building for the project, the old siding will be discarded and new siding will be used. See below for existing equipment pictures, nameplate, and drawings.

- Freight charges should be included in the bid.
- OMPA is a State Agency and is Tax-Exempt Entity. No tax is to be charged to OMPA. OMPA has and will provide upon award a valid Tax-Exemption Certificate.
- Your work weeks to complete the job are based on the hours the successful bidder deems needed to complete defined work. OMPA will assume no additional hours unless agreed to in a Change Order.
- Change Orders: Changes, Increases, or reduction in the overall proposed scope of work may require a revision in pricing and will require a Change Order by OMPA. At no time will additional pricing be paid unless a change order has been issued and approved in advance of the work. The Plant Manager David W. Huff and the OMPA General Manager must agree prior to any change order.
- This project is Turn-Key with Firm Pricing.
- All work shall be warranted for one full year following the completion of the project.



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		SOLIDSTATE CONTROLS, INC. 875 DEARBORN DRIVE • COLUMBUS, OHIO 43085				
20KVA INVERTER						
MODEL NO.	STI/STS/MBS/-020-1					
SERIAL NO.	15150					
ALL RATINGS NOMINAL						
MAIN INPUT	VAC	FREQ.	P.F.	AMPS AC	PHASE	WIRE
BYPASS INPUT	480	60	HZ.	VAC	67 MAX.	AMPS AC
				FREQ.	SINGLE	PHASE
					THREE	WIRE
DC INPUT	130	VDC	238	AMPS DC		
		BATT. TYPE		CELLS		
OUTPUT	120	V AC	67	AMPS AC		
	60	FREQ.	SINGLE	PHASE		
	.8	P.F.	THREE	WIRE		
	20	KW	20	KVA		
	40	OP. TEMPERATURE				
MADE IN USA		DATE OF MFG.		03/95		
ONE OR MORE OF THE FOLLOWING PATENTS MAY APPLY						
3,273,071-3,310,728-3,382,456-3,422,342						
3,515,894-3,515,895-3,515,896-3,993,943-4,583,004						
OTHERS PENDING						
 A member of The Marmion Group of companies						



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II. UNPACKING, INSTALLATION & STORAGE INSTRUCTIONS

I. SPECIFICATIONS

SERIAL NO.	=	15150
MODEL NO.	=	SVR/STI/STS-MBS-020-1
BATTERY INPUT	=	105-140VDC, 238A
SYSTEM OUTPUT	=	120VAC, 60HZ, 1PH, 168A
BYPASS SOURCE	=	480VAC, 60HZ, 1PH, 286A
AMBIENT TEMPERATURE RANGE	=	0-40°C



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DC CHARGER, HDR CLC-300-130

1. **Instruction Manual.**
2. **Maintenance.**
Test Instruction Manual.
Certified Test Data & Procedures.
3. **Bill-of-Material.**
Spare Parts.
4. **Safety Switch, Westinghouse HFN-226.**
5. **Drawings.**



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III. UNPACKING, INSTALLATION & STORAGE INSTRUCTIONS

I. SPECIFICATIONS

OMPA packages units in a variety of ways, depending on the method of transportation used and the customer's specific instructions.

All external wrapping and packing material should be removed and discarded. This includes cardboard, plywood packing and plastic film. The unit should be inspected for wooden braces used to block internal components, as well as adhesive tape which is often used to restrain plug-in internal packaging material and should be discarded, since they will be of no further use.

SERIAL NO. = 15151

MODEL NO. = CLC-300-130

AC INPUT = CHARGER A * 480VAC $\pm 10\%$, 64.0A NOM, 77.1A MAX, 3PH, 60HZ
CHARGER B * 480VAC $\pm 10\%$, 64.0A NOM, 77.1A MAX, 3PH, 60HZ

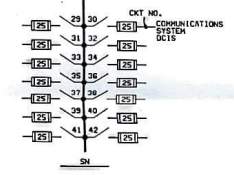
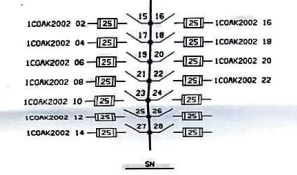
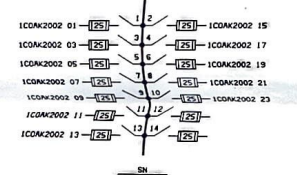
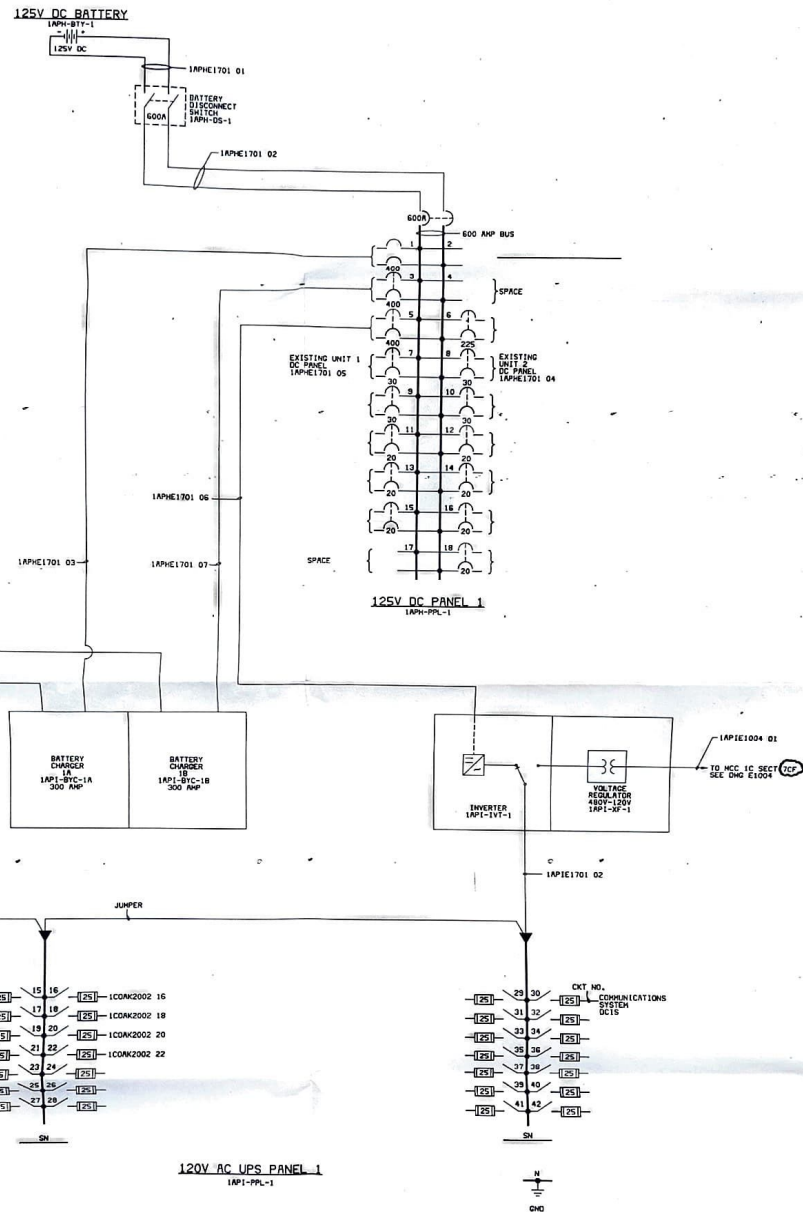
DC OUTPUT = 120VDC, 300A

AMBIENT TEMPERATURE RANGE = 0-40°C

The equipment has been designed to accept either cables which are dropped from overhead or which come up through openings in the floor. Entrance areas for these cables have been provided toward the rear of the top and toward the front of the bottom of each of the cabinets. Care should be taken when selecting the size of feeder and load components to coordinate with the input and output requirements of the system. The various current and voltage ratings appear on the equipment serial number name tag and they are also indicated on the one-line drawing which is a part of the outline and interconnect drawing contained in this manual. Lead drop should be kept to an absolute minimum and, therefore, require the use of overhead cabling if the lengths of the runs are great. It is suggested that the factory should be consulted if there is a question regarding the size of cables to be used. The cabinets supplied have provisions in the mounting feet for anchors, which may be used if desired. However, the equipment generally will not need to be anchored down since it has a low center of gravity and has sufficient weight that it could not easily be moved by accident.

Larger systems are shipped in a knock-down arrangement and will need to be reassembled according to the layout indicated on the outline and interconnect drawing. Once the cabinets have been physically arranged according to the outline drawing, the interconnect cables will have to properly attached in each bay. This is merely a matter of unfolding the cables, which are pre-numbered, and bolting each cable to the appropriately numbered terminal block.

12.c3
131
1533 WORKSHEET
DATE PLOTTED: 16 08 15 16



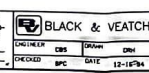
120V AC UPS PANEL 1
IAP1-PP-1



REF DMS: 63.2001.05-10004
10005

NO	DATE	REVISIONS AND RECORD OF ISSUE	DES	CHK
2	03-01-96	CONFORMED TO CONST RECORDS	YOC	JAY
2	12-18-94	CONSTRUCTION ISSUE	EDR	BJD
1	06-09-94	CONTRACT ISSUE	DES	DES
1	01-03-94	BID ISSUE	DES	DES
1	01-01-94	REVISED AND RECORD OF ISSUE	DES	PPH

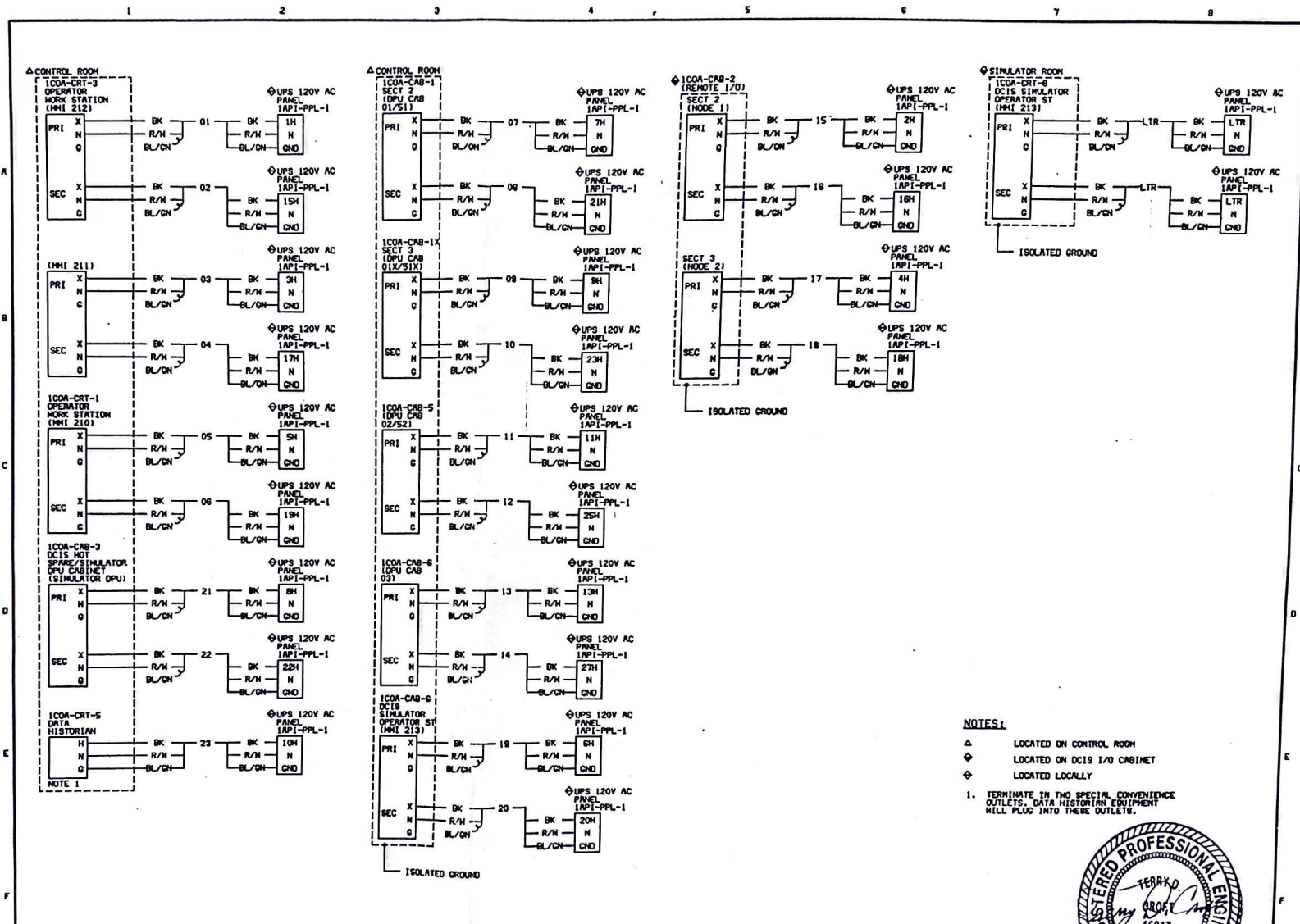
I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF OKLAHOMA.
 ENGINEER: TERRY D. CROFT
 DATE: 12-18-94, REG. NO. 18817



OKLAHOMA MUNICIPAL POWER AUTHORITY
 POWER CITY UNIT 1 REPLACEMENT
 ONE-LINE DIAGRAM
 125V DC AND 120V AC ESSENTIAL SERVICE

PROJECT	18078-1UUU-E1701	DRAWING NUMBER	3
DATE	12-18-94	SCALE	





NOTES:

- △ LOCATED ON CONTROL ROOM
- ◇ LOCATED ON DCIS I/O CABINET
- ◆ LOCATED LOCALLY

1. TERMINATE IN TWO SPECIAL CONVENIENCE OUTLETS. DATA HISTORIAN EQUIPMENT WILL PLUG INTO THESE OUTLETS.



REF. DWGS: 5052061 (SHT 5) SYSTEM POWER CABLING

1553760000 ACAD 12...
 A116L005 CI 1-1
 02/06/95 11:04:14

NO	DATE	REVISIONS AND RECORD OF ISSUE	BY	CHK/APP/FLH
1	03/01/98	CONFORMED TO CONST RECORDS	TDC	JAV
0	02/03/95	RELEASED FOR CONSTRUCTION	ECK	GHH/TDC

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF OKLAHOMA.

SIGNED: TERRY D. CROFT
 DATE: 02/03/95 REG. NO. 16917

BLACK & VEATCH

ENGINEER: ECK
 CHECKED: GHH
 DATE: 02/03/95

OKLAHOMA MUNICIPAL POWER AUTHORITY
 PONCA CITY UNIT 1 REPOWERING

SCHMATIC AND WIRING DIAGRAM
POWER INTERCONNECTIONS

PROJECT: 18078-1COA-K2002
 CODE: _____
 AREA: _____

REV: 1