

**PHYSICAL INSTALLATION**

- 1 POSITION SYSTEM IN FINAL LOCATION AND SECURE TO FLOOR WITH 3/8 HARDWARE (6 PLACES).
- 2 PROVIDE 36 INCHES OF SERVICE CLEARANCE ON EACH SIDE AND 12 INCHES AT THE REAR OF THE UPS. LOCATIONS NOT PERMITTING THE REQUIRED CLEARANCE SHOULD BE INSTALLED USING LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

**GENERAL NOTES:**

- 1 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DIMENSIONS WITHIN BRACKETS [ ] ARE IN CENTIMETERS.
- 2 WIRE SYSTEM AS INDICATED IN THE FOLLOWING PAGES.

**MECHANICAL DATA**

WEIGHT: SKVA = 620 lbs [282 kg]

SIZE: SEE DRAWING AT LEFT  
 PAINT: SHERWIN WILLIAMS PT. No. F631XA553-4337  
 COLOR: LIGHT GRAY

HEAT DISSIPATION ● 100% LOAD  
 SKW = 2.9K BTU/HR MAX.

COOLING: FAN ASSISTED  
 OPERATING AMBIENT= 32F TO +122F (0°C TO +50°C)

FOR MAXIMUM BATTERY LIFE, BATTERY MANUFACTURERS RECOMMEND AN OPERATING TEMPERATURE OF 77F (25°C).

**ENVIRONMENTAL DATA**

NEMA 1= INDOOR DUTY, OPEN VENTILATED, NONCORROSIVE, CONTROLLED ENVIRONMENT PER UL1778.

HUMIDITY RANGE: 0 TO 95% NON-CONDENSING  
 ALTITUDE DERATING: NONE BELOW 7000 FT. 10%/1000 FT. ABOVE  
 AUDIBLE NOISE: 50dB(A), 5 FT. IN FRONT OF UNIT, 4 FT. FROM FLOOR.

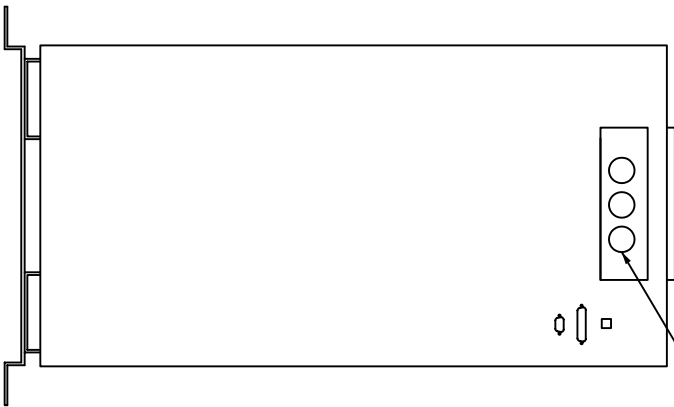
**INSTALLER CONNECTIONS**

SKVA HARSH ENVIRONMENT

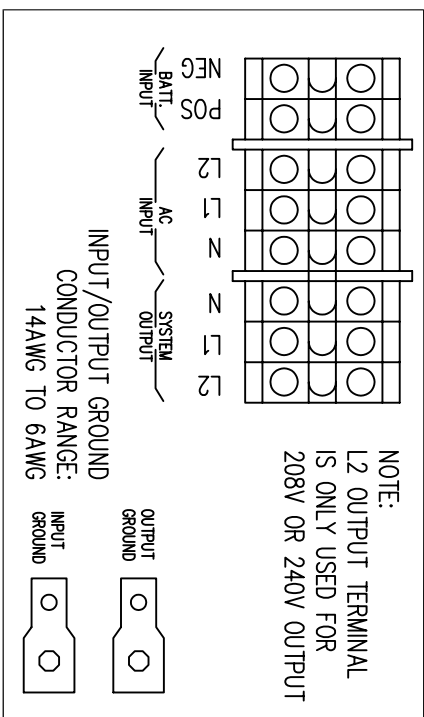
DESIGN	DATE	IC5196-351
DRAWN	DATE	
CHECKED	DATE	
APP'D	DATE	
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BACK OF SYSTEM

(3) KNOCKOUTS FOR 3/4" CONDUIT

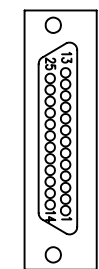


POWER CONNECTION ENCLOSURE  
ACCESSED AND VIEWED FROM TOP OF SYSTEM

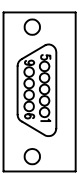


AC INPUT VOLTAGE	CONNECT TO	SYSTEM OUTPUT	CONNECT TO
208V	L1 & L2 & (N NEUTRAL)	120V	L1 & N
220V	L1 & L2 & (N NEUTRAL)	120/208V	L1 & N/L1 & L2
240V	L1 & L2 & (N NEUTRAL)	120/240V	L1 & N/L1 & L2
440V	L1 & L2 & (N NEUTRAL)		
460V	L1 & L2 & (N NEUTRAL)		
480V	L1 & L2 & (N NEUTRAL)		

MODEM PORT  
STD. RJ-11 JACK  
(PART OF RS-232  
OPTION)



J1  
RS-232 PORT  
DB25S (FEMALE)  
DCE CONNECTION  
(OPTIONAL)



J2  
ALARM CONTACT  
PORT

(J2) PIN No.	ALARM
5	COMMON
6	ON BYPASS (N.O.)
7	LOW BATTERY (N.O.)
8	GEN. ALARM (N.O.)
9	UTILITY FAIL (N.O.)

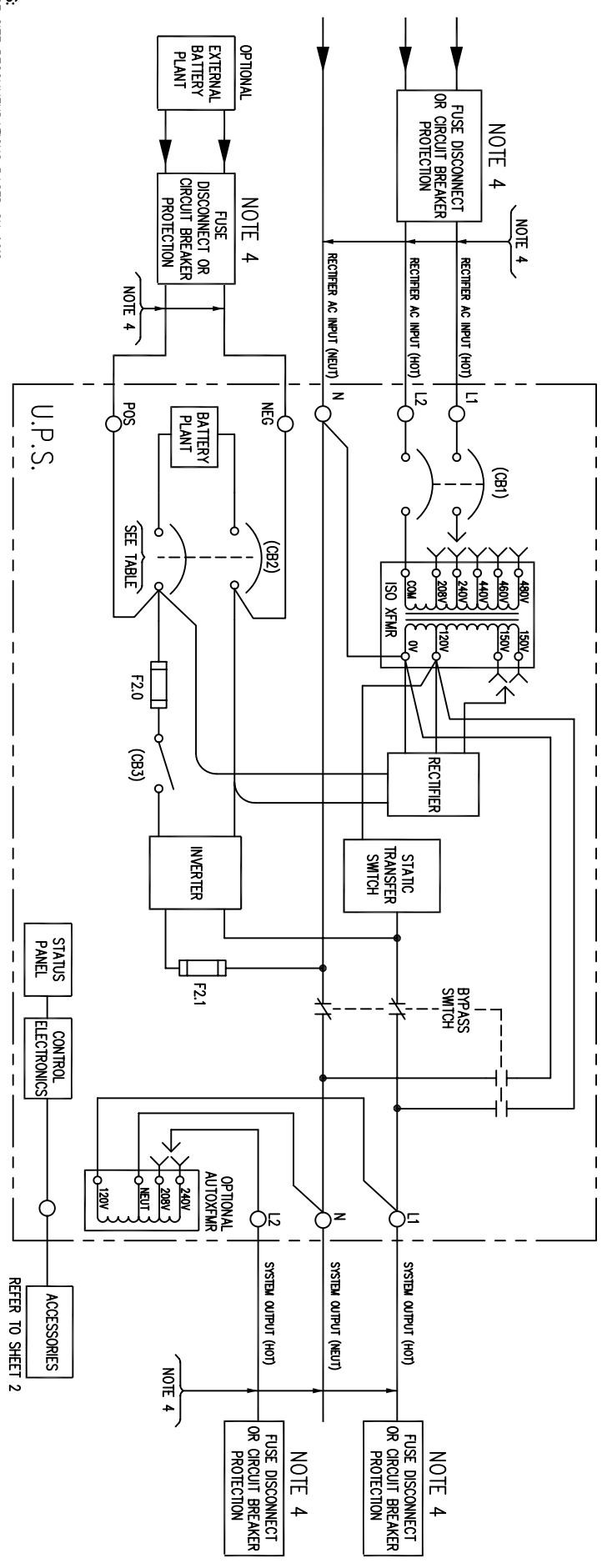
NOTE 1

NOTES:  
1 NOT TO EXCEED CLASS 2 LIMITATIONS.  
REFER TO N.E.C. ARTICLE 725-31,  
TABLES (a) & (b).

INSTALLER CONNECTIONS  
SKVA HARSH  
ENVIRONMENT SYSTEMS

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- NOTES:
- 1 WIRE SIZE RECOMMENDATIONS BASED ON 90°C COPPER CONDUCTORS OPERATING IN 30°C AMBIENT AND NEC TABLES 250-95 & 310-16, INCREASE CONDUCTOR SIZE FOR LONG RUNS.
  - 2 ALL FIELD WIRING TO BE COPPER CONDUCTOR ONLY.
  - 3 ALL GROUNDS SHOWN SHALL BE CONNECTED SEPARATELY TO A SINGLE GROUNDING POINT AT THE SOURCE SERVICE EQUIPMENT, PER IEEE STD. 446-1980 FIG. 72.
  - 4 FUSE OR CIRCUIT BREAKER PROTECTION EXTERNAL TO UPS TO BE PROVIDED BY CUSTOMER. SEE TABLE BELOW FOR RECOMMENDED PROTECTION SIZING AND WIRE SIZING.
  - 5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

SIZE SPEC. No.	AC INPUT						BATTERY LEAD						SYSTEM OUTPUT											
	AC INPUT	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	(CB2) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE
5KVA	208	40 AMPS	50A	10,000	12-2 AWG	35 IN/LB	6 GA	70A	70A	8 GA.	50A	120VDC	10,000	12-2 AWG	35 IN/LB	6 GA	50A	120/208/240V	42/24/21A	12-2 AWG	35 IN/LB	6 GA	8 GA.	60/30/30A
	240	35 AMPS	50A	10,000	12-2 AWG	35 IN/LB	6 GA	70A	70A	8 GA.	50A													
	440	19 AMPS	25A	5,000	12-2 AWG	35 IN/LB	12 GA	30A	30A	14 GA.														
	480	18.5 AMPS	25A	5,000	12-2 AWG	35 IN/LB	12 GA	30A	30A	14 GA.														
	490	18 AMPS	25A	5,000	12-2 AWG	35 IN/LB	12 GA	30A	30A	14 GA.														

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