

REVISIONS

REV	DESCRIPTION	DATE	ISSUED BY
-	ISSUE 1		/
A	REVISED OPERATING TEMP ON PAGE 4. OVP FOR 48V ON PAGE 2. REMOTE ON/OFF ON PAGE 2.	07/02/02	RJ
B	CHANGED CN4 ON PAGE 5	07/12/02	RJ
C	CHANGED D (MODELS – H & J ON PAGE 4	11/20/03	JC
D	REVISED NOTE D. FOR –H &J: SWITCHED WITH & WITHOUT COVER TEMPS	06/26/06	YS

FILE NAME: CAD1:MSWORD:PA211242.DOC	SCALE: NONE	REV: D	SH 1 OF 7
TITLE: OVS-U (UNIVERSAL INPUT) SERIES SPECIFICATION	DOCUMENT NUMBER: P-A2-11242		
<b style="color: blue;">TAMURA CORPORATION OF AMERICA 43352 BUSINESS PARK DRIVE • TEMECULA • CA • 92590 TEL: (951) 699-1270 • FAX: 9516769482	PREPARED BY:	K. BRENNAN	06/26/06
	ENGINEERING:	M. PITCHAI	06/26/06
	APPROVED:	Y. SEKIGUCHI	06/26/06
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A. Electrical Specifications

(1) AC Input Voltage Rating

AC100 - 230V, 50/60Hz (47 - 63Hz)
 AC90 - 264V -----E Series
 AC90 - 132VAC / AC180 - 264V -----F to J Series
 (Automatic voltage selection)

DC Input Voltage Range

DC115 - 372V -----E Series
 DC230 - 372V -----F to J Series with JW1 open

(2) Input Surge Current

35A MAX for E Series at nominal line (115/230V) cold start
 30A MAX for F to J Series at nominal line (115/230V) cold start

(3) DC Output Adjustment Range

± 10% MIN
 24V output: 22.8V to 29.2V

(4) Line Regulation

± 0.5% MAX under specified input range

(5) Load Regulation

± 0.5% MAX from no load to full rated load

(6) Output Ripple and Noise

3/5 - 15V output 75mVp-p MAX
 24V output 120mVp-p MAX
 28, 48V output 240mVp-p MAX } DC to 20MHz BW

(7) Hold-up Time

20msec MIN under nominal line and rated load

(8) Output Transient Response

1msec MAX over ±2% of rated voltage
 under 50 - 100% load change

(9) Output Voltage Rise Time

100msec MAX, from 10% to 90% of rated output voltage

(10) Efficiency

70% MIN at nominal line and rated load

(11) Overload Protection

120% TYP of rated load, fold-back limiting type

(12) OverVoltage Protection

3V output 3.8 - 4.6V
 5V output 5.7 - 6.7V
 12V output 14.25 - 15.75V
 15V output 17.25 - 18.75V
 24/28V output 31.0 - 34.5V
 48V output 54.0 - 62.0V

(13) Leakage Current

0.75mA rms MAX

(14) Overshoot

No overshoot during turn ON/OFF

(15) Output Voltage Stability

± 0.1% MAX for 8 hours after 20 minute warm-up

(16) Temperature Coefficient

±0.03% per deg. C MAX

(17) Remote/Local Sensing

Built-in

(18) Remote ON/OFF Control

Built-in F, G, H and J Series, 300uA MIN
 < 1V for inhibit, > 4.5V (or open) for ON

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- ## 24) Part Number Description

Case size

* INDICATES A DUAL RATING

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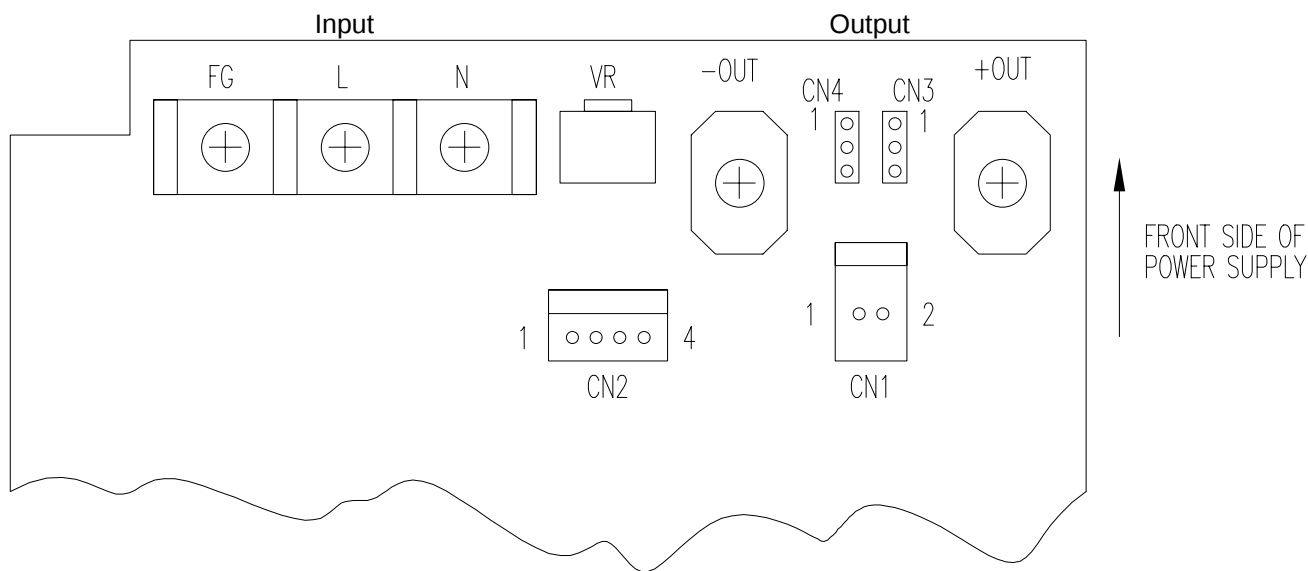
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- (3) Operating Humidity 10 - 90% RH, non condensing
- (4) Storage Humidity 10 - 95%, non condensing
- (5) Vibration 10 - 55Hz, 2G (All axis, 1 hour)
- (6) Shock 20msec, 20G (All axis, 3X ea.)

E. Power Factor Correction

Use Tamura Part Number PFC-500 as an external active filter power supply for OVS-E through J Series

F. Input and Output terminals



*I/O Terminal Screws: M4

CN1 (Remote sense) Pin Assignment

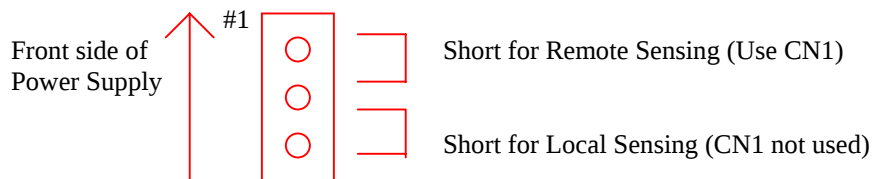
- #1 pin +Sense
- #2 pin -Sense

CN2 (Input / Output Signal) Pin Assignment

- #1 pin CS (Current sharing, external circuit required)
- #2 pin AC Power Fail signal output (+5V only, other voltages optional)
- #3 pin SG (Signal Ground)
- #4 pin Remote ON/OFF (not available on E Series)

CN3, CN4 Jumper Tip Position

- CN3 +OUT
- CN4 -OUT



CN1 Part No: 5273-02A/Molex
Mating Part No: 5195-02 or 5239-02/Molex

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CN2 Part No: 5045-03A/Molex ----E Series
 5045-04A/Molex ----F through J Series
Mating Part No: 5102-03 or 5051-03/Molex ---- E Series
 5012-04 or 5051-04/Molex ----F through J Series
CN3, 4 Part No: 5548-03A/Molex
Tip Part No: 90059-0013/Molex

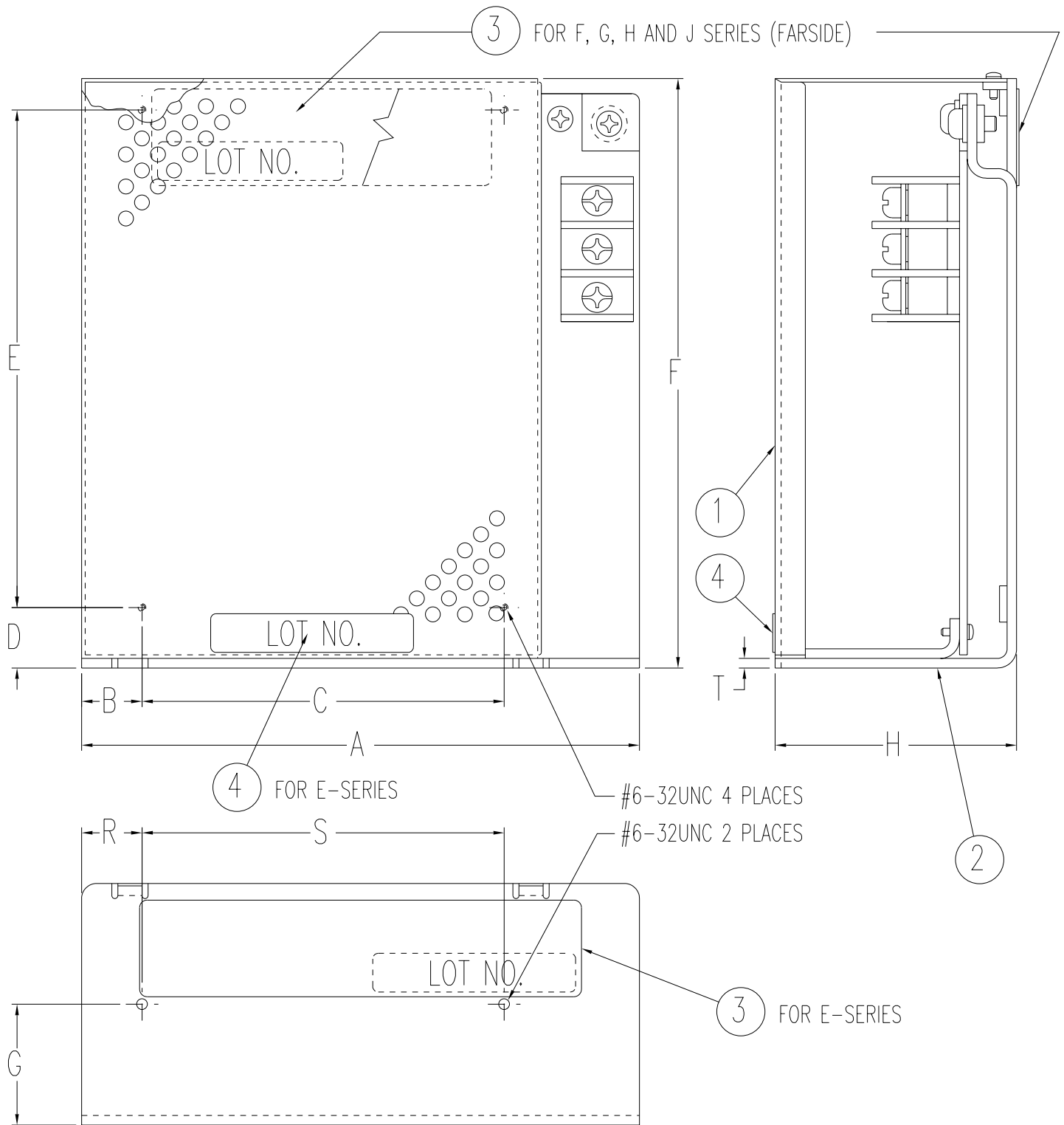
G. Mechanical Specifications dimensions shown in mm (inches).
 See sheet 7 for drawing representations

MODEL	A	B	C	D	E	F	G	H	R	S	T
OVS-E	117.3 (4.62)	12.7 (0.50)	76.29 (3.00)	12.7 (0.50)	104.6 (4.12)	124 (4.88)	25.4 (1.00)	50.8 (2.00)	12.7 (0.50)	76.2 (3.00)	2.00 (0.079)
OVS-F	180.3 (7.10)	38.1 (1.50)	114.3 (4.50)	12.7 (0.50)	104.6 (4.12)	124 (4.88)	30.2 (1.19)	60.2 (2.37)	38.1 (1.50)	114.3 (4.50)	2.00 (0.079)
OVS-G	218.4 (8.60)	12.7 (0.50)	177.8 (7.00)	12.7 (0.50)	104.6 (4.12)	124 (4.88)	30.2 (1.19)	60.2 (2.37)	12.7 (0.50)	177.8 (7.00)	2.00 (0.079)
OVS-H	269.2 (10.60)	12.7 (0.50)	228.6 (9.00)	12.7 (0.50)	104.6 (4.12)	124 (4.88)	33.3 (1.31)	66.0 (2.60)	12.7 (0.50)	228.6 (9.00)	3.00 (0.116)
OVS-J	304.8 (12.00)	12.7 (0.50)	254 (10.00)	12.7 (0.50)	104.6 (4.12)	124 (4.88)	34.8 (1.37)	69.9 (2.75)	12.7 (0.50)	279.4 (11.00)	3.00 (0.118)
TOLERANCES	±1.016 (±0.04)	±0.508 (±0.02)	±0.254 (±0.01)	±0.508 (±0.02)	±0.254 (±0.01)	±1.016 (±0.04)	±0.508 (±0.02)	±1.016 (±0.04)	±0.508 (±0.02)	±0.254 (±0.01)	N/A

Material List

ITEM #	PART NAME	QTY	MATERIAL
1	CHASSIS	1	ALUMINUM SHEET
2	COVER	1	ALUMINUM SHEET
3	LABEL	1	PAPER
4	LABEL	1	PAPER

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