



Features:

- Universal AC input / Full range
- · Built-in active PFC function
- High efficiency up to 90%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Protections: Over temperature (optional)
- Cooling by free air convection
- 1U low profile 38mm
- Built-in remote ON-OFF control
- No load power consumption<0.5W
- All using 105° C long life electrolytic capacitors
- 5 years warranty

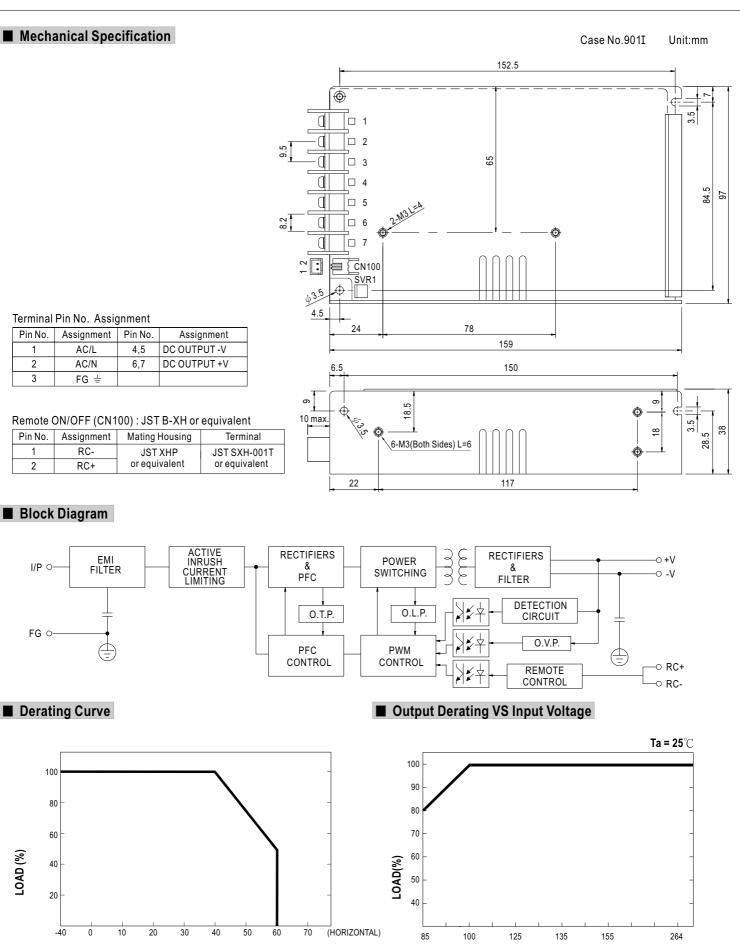
ECBCE

AGE URRENT I RANGE DWER NOISE (max.) Note.2 ADJ. RANGE TOLERANCE Note.3 ULATION GULATION ISE TIME TIME (Typ.) E RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	3.1 ~ 3.8V +2.5,-3.5% ±0.5% ±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	20ms/115 120 ~ 370V	7.5V 13.5A 0 ~ 13.5A 101.3W 100mVp-p 7.1 ~ 9V ±2.5% ±0.5% ±1.5% 500ms, 100ms/11 VAC at full load DC	12V 8.5A 0 ~ 8.5A 102W 120mVp-p 11.4 ~ 13.8V ±1.5% ±0.3% ±0.8% 5VAC at full load	15V 7A 0 ~ 7A 105W 150mVp-p 14.25 ~ 18V ±1.5% ±0.3% ±0.8%	24V 4.5A 0 ~ 4.5A 108W 150mVp-p 22.8 ~ 28.8V ±1.5% ±0.2% ±0.5%	36V 2.9A 0~2.9A 104.4W 200mVp-p 34.2~39.6V ±1.5% ±0.2% ±0.5%	48V 2.2A 0~2.2A 105.6W 240mVp-p 45.6~55.2V ±1.5% ±0.2%						
TRANGE DWER NOISE (max.) Note.2 ADJ. RANGE TOLERANCE Note.3 BULATION GULATION ISE TIME TIME (Typ.) E RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.)	0 ~ 20A 66W 80mVp-p 3.1 ~ 3.8V +2.5,-3.5% ±0.5% ±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	0 ~ 17A 85W 80mVp-p 4.75 ~ 5.8V ±2.5% ±0.5% ±2.0% \$/230VAC 2 20ms/115 120 ~ 370V AC PF>0.9 83%	0 ~ 13.5A 101.3W 100mVp-p 7.1 ~ 9V ±2.5% ±0.5% ±1.5% 500ms, 100ms/11 VAC at full load DC	0 ~ 8.5A 102W 120mVp-p 11.4 ~ 13.8V ±1.5% ±0.3% ±0.8%	0 ~ 7A 105W 150mVp-p 14.25 ~ 18V ±1.5% ±0.3%	0 ~ 4.5A 108W 150mVp-p 22.8 ~ 28.8V ±1.5% ±0.2%	0~2.9A 104.4W 200mVp-p 34.2~39.6V ±1.5% ±0.2%	0~2.2A 105.6W 240mVp-p 45.6~55.2V ±1.5% ±0.2%						
NOISE (max.) Note.2 ADJ. RANGE TOLERANCE Note.3 BULATION GULATION ISE TIME TIME (Typ.) FRANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.)	66W 80mVp-p 3.1 ~ 3.8V +2.5,-3.5% ±0.5% ±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	85W 80mVp-p 4.75 ~ 5.8V ±2.5% ±0.5% ±2.0% s/230VAC 2 20ms/115 120 ~ 370V AC PF>0.9 83%	101.3W 100mVp-p 7.1 ~ 9V ±2.5% ±0.5% ±1.5% 500ms, 100ms/11 VAC at full load	102W 120mVp-p 11.4 ~ 13.8V ±1.5% ±0.3% ±0.8%	105W 150mVp-p 14.25 ~ 18V ±1.5% ±0.3%	108W 150mVp-p 22.8 ~ 28.8V ±1.5% ±0.2%	104.4W 200mVp-p 34.2 ~ 39.6V ±1.5% ±0.2%	105.6W 240mVp-p 45.6 ~ 55.2V ±1.5% ±0.2%						
NOISE (max.) Note.2 ADJ. RANGE TOLERANCE Note.3 BULATION GULATION ISE TIME TIME (Typ.) E RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	2 80mVp-p 3.1 ~ 3.8V +2.5,-3.5% ±0.5% ±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	80mVp-p 4.75 ~ 5.8V ±2.5% ±0.5% ±2.0% \$230VAC 2 20ms/115 120 ~ 370V AC PF>0.9 83%	100mVp-p 7.1 ~ 9V ±2.5% ±0.5% ±1.5% 500ms, 100ms/11 VAC at full load DC	120mVp-p 11.4 ~ 13.8V ±1.5% ±0.3% ±0.8%	150mVp-p 14.25 ~ 18V ±1.5% ±0.3%	150mVp-p 22.8 ~ 28.8V ±1.5% ±0.2%	200mVp-p 34.2 ~ 39.6V ±1.5% ±0.2%	240mVp-p 45.6 ~ 55.2V ±1.5% ±0.2%						
ADJ. RANGE TOLERANCE Note.3 FULATION GULATION ISE TIME TIME (Typ.) FRANGE Note.5 FRANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	3.1 ~ 3.8V +2.5,-3.5% ±0.5% ±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	4.75 ~ 5.8V ±2.5% ±0.5% ±2.0% \$\frac{\text{\$\}\$\text{\$\text{\$\text{\$\texititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\	7.1 ~ 9V ±2.5% ±0.5% ±1.5% 500ms, 100ms/11 VAC at full load DC	11.4 ~ 13.8V ±1.5% ±0.3% ±0.8%	14.25 ~ 18V ±1.5% ±0.3%	22.8 ~ 28.8V ±1.5% ±0.2%	34.2 ~ 39.6V ±1.5% ±0.2%	45.6 ~ 55.2V ±1.5% ±0.2%						
TOLERANCE Note.3 GULATION GULATION ISE TIME TIME (Typ.) E RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.)	+2.5,-3.5% ±0.5% ±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	±2.5% ±0.5% ±2.0% 5/230VAC 2 20ms/115 120 ~ 370V (AC PF>0.6	±2.5% ±0.5% ±1.5% 500ms, 100ms/11 VAC at full load DC	±1.5% ±0.3% ±0.8%	±1.5% ±0.3%	±1.5% ±0.2%	±1.5% ±0.2%	±1.5% ±0.2%						
GULATION GULATION ISE TIME TIME (Typ.) E RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.)	±0.5% ±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	±0.5% ±2.0% s/230VAC 2 = 20ms/115 120 ~ 370V /AC PF>0.8	±0.5% ±1.5% 500ms, 100ms/11 VAC at full load DC	±0.3% ±0.8%	±0.3%	±0.2%	±0.2%	±0.2%						
GULATION ISE TIME TIME (Typ.) RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.)	±2.0% 2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	±2.0% s/230VAC 2 = 20ms/115 120 ~ 370V VAC PF>0.9 83%	±1.5% 500ms, 100ms/11 VAC at full load DC	±0.8%										
ISE TIME TIME (Typ.) RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	2500ms, 100ms 50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	5/230VAC 2 20ms/115 120 ~ 370V /AC PF>0.9	500ms, 100ms/11 VAC at full load DC		±0.8%	±0.5%	±0.5%	±0.5%						
TIME (Typ.) ERANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	50ms/230VAC 85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	20ms/115 120 ~ 370V /AC PF>0.9	VAC at full load DC	5VAC at full load				•						
RANGE Note.5 NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	85 ~ 264VAC 47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	120 ~ 370V /AC PF>0.9	DC											
NCY RANGE ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	47 ~ 63Hz PF>0.95/230V 78% 1.2A/115VAC	/AC PF>0.9												
ACTOR (Typ.) CY (Typ.) ENT (Typ.) CURRENT (Typ.)	PF>0.95/230V 78% 1.2A/115VAC	83%	98/115VAC at ful				85 ~ 264VAC 120 ~ 370VDC							
CY (Typ.) ENT (Typ.) CURRENT (Typ.)	78% 1.2A/115VAC	83%	98/115VAC at ful											
ENT (Typ.) CURRENT (Typ.)	1.2A/115VAC			llload										
ENT (Typ.) CURRENT (Typ.)		0.64/2201/4	84%	87.5%	88%	88.5%	89%	90%						
CURRENT (Typ.)	35A/115\/AC	U.UA/23UVA	Ċ											
CURRENT	35A/115VAC 65A/230VAC													
	<1mA/240VAC													
OVERLOAD	105 ~ 135% rated output power													
	Protection type: Constant current limiting for Vo=50 ~ 100% of rated voltage, recovers automatically after fault condition is remov													
PROTECTION OVER VOLTAGE OVER TEMPERATURE	3.96 ~ 4.62V	6 ~ 7V	9.4 ~ 10.9V	14.4 ~ 16.8V	18.8 ~ 21.8V	30 ~ 34.8V	41.4 ~ 48.6V	57.6 ~ 67.2						
	Protection typ	e : Shut down o/	p voltage, re-po	wer on to recove	er	l	l							
	90°C (3.3V ~ 7.5V), 85°C (12V ~ 48V) (TSW1 : detect on heatsink Q101 of power transistor)(optional)													
	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down													
CONTROL	RC+/RC-: $0 \sim 0.8$ V= power on; $4 \sim 10$ V = power off													
G TEMP.	-40 ~ +60°C (Refer to output load derating curve)													
3 HUMIDITY	20 ~ 90% RH non-condensing													
E TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH													
EFFICIENT	±0.04%/°C (0													
ON .	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes													
STANDARDS	UL60950-1, TUV EN60950-1 approved													
ND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC													
JINIT I														
N .			-2171 (230)											
ON		,	ГТ											
	0. 1													
N N U I C	CANDARDS D VOLTAGE RESISTANCE CTION & RADIATION C CURRENT NITY	10 ~ 500Hz, 50 ANDARDS UL60950-1, TI D VOLTAGE I/P-O/P:3KVA RESISTANCE I/P-O/P, I/P-FC CTION & RADIATION Compliance to CCURRENT Compliance to 295.7K hrs mi 159*97*38mm 0.38Kg; 24pcs. The transfer of the compliance of the compliance of the compliance to the complia	10 ~ 500Hz, 5G 10min./1cycle ANDARDS UL60950-1, TUV EN60950-1 D VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5k RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100N CTION & RADIATION Compliance to EN55022 (CISI CURRENT Compliance to EN61000-3-2, NITY Compliance to EN61000-4-2,3 295.7K hrs min. MIL-HDBK I 159*97*38mm (L*W*H) 0.38Kg; 24pcs/ 10.1Kg/0.76CU meters NOT specially mentioned are measured at a noise are measured at 20MHz of bandwidth by use: includes set up tolerance, line regulation and lot	10 ~ 500Hz, 5G 10min./1cycle, 60min. each al UL60950-1, TUV EN60950-1 approved UL60950-1, TUV EN60950-1 approved I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M 0hms / 500VD CTION & RADIATION Compliance to EN55022 (CISPR22) Class B CURRENT Compliance to EN61000-3-2,-3 NITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN 295.7K hrs min. MIL-HDBK-217F (25°C) 159*97*38mm (L*W*H) 0.38Kg; 24pcs/ 10.1Kg/0.76CUFT meters NOT specially mentioned are measured at 230VAC input, re noise are measured at 20MHz of bandwidth by using a 12" twiste se : includes set up tolerance, line regulation and load regulation.	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes ANDARDS UL60950-1, TUV EN60950-1 approved U/P-O/P:3KVAC	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes UL60950-1, TUV EN60950-1 approved UV0LTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M 0hms / 500VDC / 25°C / 70% RH CTION & RADIATION Compliance to EN55022 (CISPR22) Class B CURRENT Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-295.7K hrs min. MIL-HDBK-217F (25°C) 159*97*38mm (L*W*H) 0.38Kg; 24pcs/ 10.1Kg/0.76CUFT meters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient to a noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.5 be : includes set up tolerance, line regulation and load regulation.	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes UL60950-1, TUV EN60950-1 approved I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH CTION & RADIATION Compliance to EN55022 (CISPR22) Class B CURRENT Compliance to EN61000-3-2,-3 NITY Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2, heavy industr 295.7K hrs min. MIL-HDBK-217F (25°C) 159*97*38mm (L*W*H) 0.38Kg; 24pcs/ 10.1Kg/0.76CUFT meters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. In oise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parall	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes UL60950-1, TUV EN60950-1 approved UVOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH CTION & RADIATION Compliance to EN55022 (CISPR22) Class B CURRENT Compliance to EN61000-3-2,-3 NITY Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2, heavy industry level, criteria 295.7K hrs min. MIL-HDBK-217F (25°C) I 59*97*38mm (L*W*H) 0.38Kg; 24pcs/ 10.1Kg/0.76CUFT meters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. I noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. be : includes set up tolerance, line regulation and load regulation.						

- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.

AMBIENT TEMPERATURE (°C)





INPUT VOLTAGE (V) 60Hz