



## ■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- ZCS/ZVS technology to reduce power dissipation
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- DC OK relay contact
- No load power consumption<1W
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

## **SPECIFICATION**



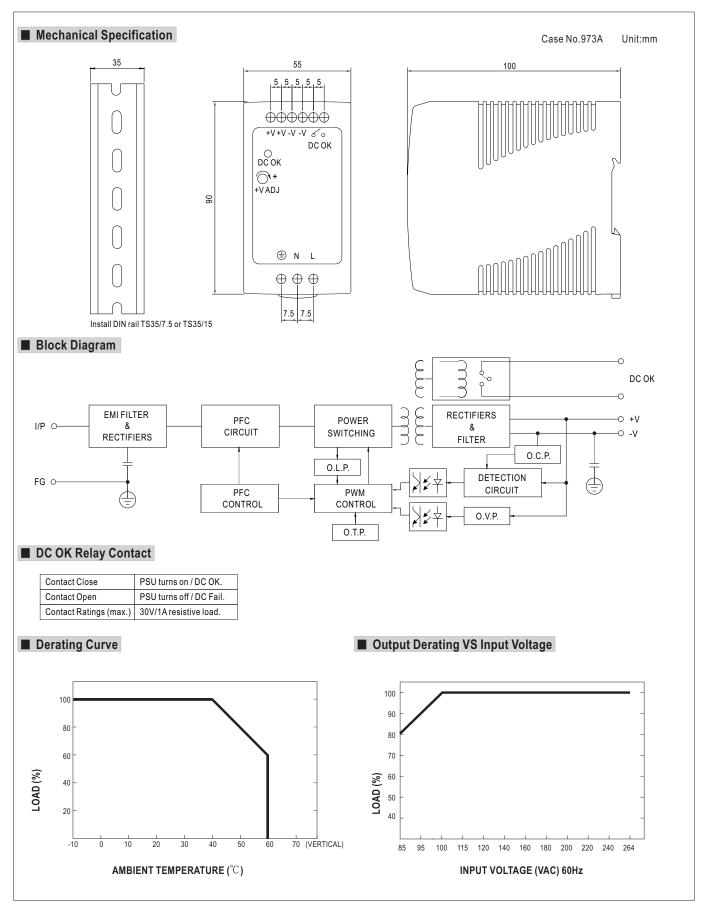






IOLD UP TIME (Typ.)	$\begin{array}{c} 12 \sim 15 \text{V} \\ \pm 1.0\% \\ \pm 1.0\% \\ \pm 1.0\% \\ \end{array}$ $\begin{array}{c} \pm 1.0\% \\ 3000 \text{ms}, 50 \text{ms}/230 \text{VAC} \qquad 3000 \text{ms}, 50 \text{r} \\ 50 \text{ms}/230 \text{VAC} \qquad 20 \text{ms}/115 \text{VAC} \text{ at full like} \\ 85 \sim 264 \text{VAC} \qquad 120 \sim 370 \text{VDC} \\ 47 \sim 63 \text{Hz} \\ \text{PF} \geq 0.95/230 \text{VAC} \qquad \text{PF} \geq 0.98/115 \text{VAC} \\ 83\% \\ 1.3A/115 \text{VAC} \qquad 0.8A/230 \text{VAC} \\ \text{COLD START } 30A/115 \text{VAC} \qquad 60A/230 \\ <1 \text{mA} / 240 \text{VAC} \\ \end{array}$	C at full load 86%	48V 2A 0~2A 96W 200mVp-p 48~56V ±1.0% ±1.0%
CURRENT RANGE  CATED POWER  CIPPLE & NOISE (max.) Note.2  COLTAGE ADJ. RANGE  COLTAGE TOLERANCE Note.3  INE REGULATION  COLTAGE TIME Note.5  COLTAGE RANGE  COLTAGE RANGE  COLTAGE RANGE  COURENT (Typ.)  COLTAGE RANGE  COWER FACTOR (Typ.)  COURRENT (Typ.)  COURRENT (Typ.)  RESHAUGE CURRENT  EAKAGE CURRENT	0 ~ 7.5A  90W  120mVp-p  12 ~ 15V  ± 1.0%  ± 1.0%  ± 1.0%  3000ms, 50ms/230VAC  3000ms, 50ms/230VAC  3000ms, 50ms/230VAC  47 ~ 63Hz  PF≥0.95/230VAC  PF≥0.98/115VAC  83%  1.3A/115VAC  0.8A/230VAC  COLD START 30A/115VAC  60A/230  <1mA / 240VAC	0 ~ 4A 96W 150mVp-p 24 ~ 30V ± 1.0% ± 1.0% ± 1.0% ons/115VAC at full load onad	0~2A 96W 200mVp-p 48~56V ±1.0% ±1.0%
AATED POWER RIPPLE & NOISE (max.) Note.2 COLTAGE ADJ. RANGE COLTAGE TOLERANCE Note.3 INE REGULATION OAD REGULATION SETUP, RISE TIME Note.5 IOLD UP TIME (Typ.) COLTAGE RANGE Note.6 REQUENCY RANGE OWER FACTOR (Typ.) IC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT	90W 120mVp-p 12 ~ 15V ± 1.0% ± 1.0% ± 1.0% 50ms/230VAC 3000ms, 50rs/230VAC 3000ms, 50rs/230VAC at full le 85 ~ 264VAC 120 ~ 370VDC 47 ~ 63Hz PF≥0.95/230VAC PF≥0.98/115VAC 83% 1.3A/115VAC 0.8A/230VAC COLD START 30A/115VAC 60A/230 < 1mA / 240VAC	96W 150mVp-p 24 ~ 30V ± 1.0% ± 1.0% ± 1.0% ns/115VAC at full load bad  C at full load 86%	96W 200mVp-p 48 ~ 56V ± 1.0% ± 1.0%
RIPPLE & NOISE (max.) Note.2  OLTAGE ADJ. RANGE  OLTAGE TOLERANCE Note.3  INE REGULATION  OAD REGULATION  ETUP, RISE TIME Note.5  IOLD UP TIME (Typ.)  OLTAGE RANGE Note.6  REQUENCY RANGE  OWER FACTOR (Typ.)  IC CURRENT (Typ.)  NRUSH CURRENT (Typ.)  EAKAGE CURRENT	120mVp-p  12 ~ 15V  ± 1.0%  ± 1.0%  ± 1.0%  ± 1.0%  3000ms, 50ms/230VAC 3000ms, 50r  50ms/230VAC 20ms/115VAC at full le  85 ~ 264VAC 120 ~ 370VDC  47 ~ 63Hz  PF≥0.95/230VAC PF≥0.98/115VAC  83%  1.3A/115VAC 0.8A/230VAC  COLD START 30A/115VAC 60A/230  <1mA / 240VAC	150mVp-p 24 ~ 30V ± 1.0% ± 1.0% ± 1.0% ans/115VAC at full load boad  C at full load 86%	200mVp-p 48 ~ 56V ±1.0% ±1.0%
OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.3 INE REGULATION OAD REGULATION ETUP, RISE TIME Note.5 IOLD UP TIME (Typ.) OLTAGE RANGE Note.6 REQUENCY RANGE OWER FACTOR (Typ.) IC CURRENT (Typ.) RRUSH CURRENT (Typ.) EAKAGE CURRENT	$\begin{array}{c} 12 \sim 15 \text{V} \\ \pm 1.0\% \\ \pm 1.0\% \\ \pm 1.0\% \\ \end{array}$ $\begin{array}{c} \pm 1.0\% \\ 3000 \text{ms}, 50 \text{ms}/230 \text{VAC} \qquad 3000 \text{ms}, 50 \text{r} \\ 50 \text{ms}/230 \text{VAC} \qquad 20 \text{ms}/115 \text{VAC} \text{ at full like} \\ 85 \sim 264 \text{VAC} \qquad 120 \sim 370 \text{VDC} \\ 47 \sim 63 \text{Hz} \\ \text{PF} \geq 0.95/230 \text{VAC} \qquad \text{PF} \geq 0.98/115 \text{VAC} \\ 83\% \\ 1.3A/115 \text{VAC} \qquad 0.8A/230 \text{VAC} \\ \text{COLD START } 30A/115 \text{VAC} \qquad 60A/230 \\ <1 \text{mA} / 240 \text{VAC} \\ \end{array}$	24 ~ 30V ± 1.0% ± 1.0% ± 1.0% ns/115VAC at full load pad  C at full load  86%	48 ~ 56V ± 1.0% ± 1.0% ± 1.0%
OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.3 INE REGULATION OAD REGULATION ETUP, RISE TIME Note.5 IOLD UP TIME (Typ.) OLTAGE RANGE Note.6 REQUENCY RANGE OWER FACTOR (Typ.) IC CURRENT (Typ.) RRUSH CURRENT (Typ.) EAKAGE CURRENT	$\begin{array}{c} 12 \sim 15 \text{V} \\ \pm 1.0\% \\ \pm 1.0\% \\ \pm 1.0\% \\ \end{array}$ $\begin{array}{c} \pm 1.0\% \\ 3000 \text{ms}, 50 \text{ms}/230 \text{VAC} \qquad 3000 \text{ms}, 50 \text{r} \\ 50 \text{ms}/230 \text{VAC} \qquad 20 \text{ms}/115 \text{VAC} \text{ at full like} \\ 85 \sim 264 \text{VAC} \qquad 120 \sim 370 \text{VDC} \\ 47 \sim 63 \text{Hz} \\ \text{PF} \geq 0.95/230 \text{VAC} \qquad \text{PF} \geq 0.98/115 \text{VAC} \\ 83\% \\ 1.3A/115 \text{VAC} \qquad 0.8A/230 \text{VAC} \\ \text{COLD START } 30A/115 \text{VAC} \qquad 60A/230 \\ <1 \text{mA} / 240 \text{VAC} \\ \end{array}$	±1.0% ±1.0% ±1.0%  ±1.0%  oad  C at full load  86%	±1.0% ±1.0% ±1.0%
INE REGULATION OAD REGULATION ETUP, RISE TIME Note.5 IOLD UP TIME (Typ.) OLTAGE RANGE Note.6 REQUENCY RANGE OWER FACTOR (Typ.) EFFICIENCY (Typ.) NC CURRENT (Typ.) RRUSH CURRENT (Typ.) EAKAGE CURRENT	±1.0% ±1.0% 3000ms, 50ms/230VAC 3000ms, 50r 50ms/230VAC 20ms/115VAC at full le 85 ~ 264VAC 120 ~ 370VDC 47 ~ 63Hz PF≥0.95/230VAC PF≥0.98/115VAC 83% 1.3A/115VAC 0.8A/230VAC COLD START 30A/115VAC 60A/230 <1mA / 240VAC	±1.0% ±1.0% ns/115VAC at full load pad  C at full load 86%	±1.0% ±1.0%
OAD REGULATION ETUP, RISE TIME Note.5 IOLD UP TIME (Typ.)  OLTAGE RANGE Note.6 REQUENCY RANGE OWER FACTOR (Typ.) EFFICIENCY (Typ.) CC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT	±1.0% 3000ms, 50ms/230VAC 3000ms, 50r 50ms/230VAC 20ms/115VAC at full le 85 ~ 264VAC 120 ~ 370VDC 47 ~ 63Hz PF≥0.95/230VAC PF≥0.98/115VAC 83% 1.3A/115VAC 0.8A/230VAC COLD START 30A/115VAC 60A/230 <1mA / 240VAC	±1.0% ns/115VAC at full load pad  C at full load  86%	±1.0%
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REQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) C CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT	47 ~ 63Hz  PF≥0.95/230VAC PF≥0.98/115VA  83%  1.3A/115VAC 0.8A/230VAC  COLD START 30A/115VAC 60A/230  <1mA / 240VAC	86%	87%
OWER FACTOR (Typ.) EFFICIENCY (Typ.) C CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT	PF≥0.95/230VAC PF≥0.98/115VAC 83% 1.3A/115VAC 0.8A/230VAC COLD START 30A/115VAC 60A/230 <1mA / 240VAC	86%	87%
FFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT	83% 1.3A/115VAC 0.8A/230VAC COLD START 30A/115VAC 60A/230 <1mA / 240VAC	86%	87%
C CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT	1.3A/115VAC 0.8A/230VAC COLD START 30A/115VAC 60A/230 <1mA / 240VAC		87%
NRUSH CURRENT (Typ.) EAKAGE CURRENT	COLD START 30A/115VAC 60A/230 <1mA / 240VAC	VAC	
EAKAGE CURRENT	<1mA / 240VAC	VAC	
OVERLOAD	405 4500/		
OVERLOAD	105 ~ 150% rated output power		
OVERLOAD	· · ·	recovers automatically after fault condition is	removed
ROTECTION	15.6 ~ 18V	31.2 ~ 36V	57.6 ~ 64.8V
OVER VOLTAGE	Protection type: Shut down o/p voltage, re	e-power on to recover	
VER TEMPERATURE	Shut down o/p voltage, auto-recovery or	re-power on to recover	
OC OK SIGNAL	Relay contact rating(max.): 30V/1A resisti	ve	
VORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")		
VORKING HUMIDITY	20 ~ 90% RH non-condensing		
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
EMP. COEFFICIENT	±0.03%/°C (0~50°C)		
/IBRATION	Component : 10 ~ 500Hz, 2G 10min./1cyc	le, period for 60min. each along X, Y, Z axes;	Mounting: Compliance to IEC60068-2-6
SAFETY STANDARDS	UL508, TUV EN60950-1 approved		
VITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F	G:0.5KVAC	
SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH		
MC EMISSION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3		
MC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, E	N55024, EN61000-6-2, EN61204-3, heavy indu	stry level, criteria A
MTBF	346K hrs min. MIL-HDBK-217F (25°C)		
DIMENSION	55*90*100mm (W*H*D)		
PACKING	0.42Kg; 30pcs/13.6Kg/0.82CUFT		
2. Ripple & noise are measure	ed at 20MHz of bandwidth by using a 12" tolerance, line regulation and load regulat lered a component which will be installed ace on how to perform these EMC tests, p.meanwell.com)	twisted pair-wire terminated with a 0.1uf & ion. into a final equipment. The final equipment lease refer to "EMI testing of component po" the power supply may lead to increase of	47uf parallel capacitor.  must be re-confirmed that it still meets wer supplies."
//TI	BF IENSION CKING  All parameters NOT specia Ripple & noise are measur Tolerance : includes set under supply is consic EMC directives. For guidar (as available on http://www	IENSION  346K hrs min. MIL-HDBK-217F (25°C) 55*90*100mm (W*H*D)  CKING  0.42Kg; 30pcs/13.6Kg/0.82CUFT  All parameters NOT specially mentioned are measured at 230VAC in Ripple & noise are measured at 20MHz of bandwidth by using a 12" Tolerance : includes set up tolerance, line regulation and load regulat The power supply is considered a component which will be installed EMC directives. For guidance on how to perform these EMC tests, p (as available on http://www.meanwell.com) Length of set up time is measured at first cold start. Turning ON/OFF	BF 346K hrs min. MIL-HDBK-217F (25°C)  IENSION 55*90*100mm (W*H*D)  CKING 0.42Kg; 30pcs/13.6Kg/0.82CUFT  All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temper Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 4 Tolerance : includes set up tolerance, line regulation and load regulation.  The power supply is considered a component which will be installed into a final equipment. The final equipment EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component po





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