



■ Features :

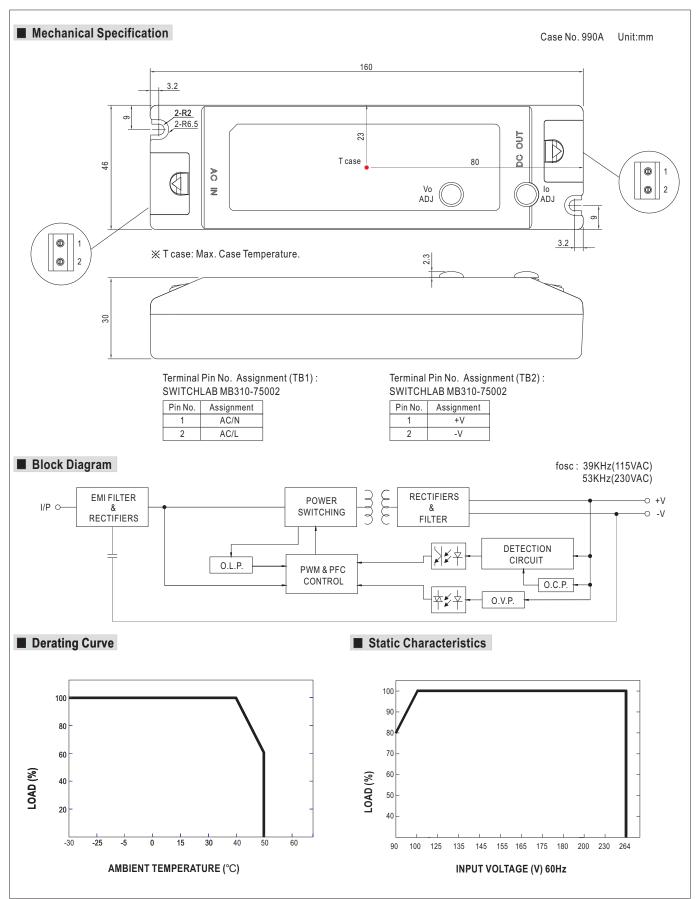
- Universal AC input / Full range
- Adjustable output voltage and current level
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Cooling by free air convection
- Built-in constant current limiting circuit
- Fully isolated plastic case with terminal block style of I/O
- Built-in active PFC function, comply with EN61000-3-2 class C (Pin≧25W)
- · Class 2 power unit
- 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications (Note.2)
- · Compliance to worldwide safety regulations for lighting

F 110 M SELV M (tor 48V only) c M US (except for 48V) P A ONLY CBCE

		PLC-30-9	PLC-30-12	PLC-30-15	PLC-30-20	PLC-30-24	PLC-30-27	PLC-30-36	PLC-30-48	
ОИТРИТ	DC VOLTAGE	9V	12V	15V	20V	24V	27V	36V	48V	
	CONSTANT CURRENT REGION Note.6	6.3 ~ 9V	8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V	
	RATED CURRENT	3.3A	2.5A	2A	1.5A	1.25A	1.12A	0.84A	0.63A	
	CURRENT RANGE	0 ~ 3.3A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.25A	0 ~ 1.12A	0 ~ 0.84A	0 ~ 0.63A	
	RATED POWER	29.7W	30W	30W	30W	30W	30.24W	30.24W	30.24W	
	RIPPLE & NOISE (max.) Note.2	2.6Vp-p	2Vp-p	2.6Vp-p	2.6Vp-p	2.4Vp-p	2.3Vp-p	3.6Vp-p	3.7Vp-p	
	VOLTAGE ADJ. RANGE Note.5	8.55 ~ 9.9V	11.4 ~ 13.2V	14.5 ~ 16.5V	19 ~ 22V	22.8 ~ 26.4V	25.65 ~ 29.7V	34.2 ~ 39.6V	45.6 ~ 52.8V	
	CURRENT ADJ. RANGE Note.5	2.475 ~ 3.399A	1.875 ~ 2.575A	1.5 ~ 2.06A	1.125 ~ 1.545A	0.938 ~ 1.288A	0.84 ~ 1.1536A	0.63 ~ 0.865A	0.473 ~ 0.649	
	VOLTAGE TOLERANCE Note.3	±10%								
	LINE REGULATION	±3.0%								
	LOAD REGULATION	±5.0%								
	SETUP TIME	500ms / 230VAC 3000ms / 115VAC at full load								
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.95/115VAC, PF>0.9/230VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION	THD< 20% who	en output loadin	ıg≧70% at 115V	AC/230VAC inp	ut				
	EFFICIENCY (Typ.)	80%	82.5%	83.5%	84%	84%	84.5%	85%	85.5%	
	AC CURRENT (Typ.)	0.4A/115VAC 0.2A/230VAC								
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=25µs measured at 50% lpeak) at 230VAC								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	64 units (circuit breaker of type B) / 64 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.5mA/240VAC								
	OVER OURRENT	100 ~ 110%								
	OVER CURRENT		: Constant curre	ent limiting, reco	vers automatica	lly after fault cor	idition is removed	j		
	OVER CURRENT SHORT CIRCUIT	Protection type	: Constant curre				idition is removed	1		
PROTECTION	SHORT CIRCUIT	Protection type					dition is removed	40 ~ 50V	53 ~ 63V	
ROTECTION		Protection type Hiccup mode, r 10 ~ 14V	ecovers automa	tically after fault	condition is rem	oved. 27 ~ 34V			53 ~ 63V	
ROTECTION	SHORT CIRCUIT	Protection type Hiccup mode, r 10 ~ 14V Protection type	ecovers automa 14 ~ 17V	tically after fault 17 ~ 22V voltage, re-pow	condition is rem 23 ~ 26V ver on to recover	oved. 27 ~ 34V			53 ~ 63V	
ROTECTION	SHORT CIRCUIT OVER VOLTAGE	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p	ecovers automa 14 ~ 17V : Shut down o/p	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V ver on to recover	oved. 27 ~ 34V			53 ~ 63V	
PROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V ver on to recover	oved. 27 ~ 34V			53 ~ 63V	
PROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP.	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V ver on to recover	oved. 27 ~ 34V			53 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V ver on to recover	oved. 27 ~ 34V			53 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 11 ±0.06%/°C (0	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C)	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve")	condition is rem 23 ~ 26V ver on to recover r	oved. 27 ~ 34V			53 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Protection type Hiccup mode, r $10 \sim 14V$ Protection type Shut down o/p $-30 \sim +50^{\circ}$ C (R $20 \sim 95\%$ RH n $-40 \sim +80^{\circ}$ C, 11 $\pm 0.06\%$ /°C ($0 \sim 10 \sim 500$ Hz, 20	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6 12min./1cycle,	tically after fault 17 ~ 22V voltage, re-pow yer on to recove g Curve") period for 72mi	condition is rem 23 ~ 26V ver on to recover r n. each along X,	oved. 27 ~ 34V Y, Z axes	31~35V	40 ~ 50V		
NVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Protection type Hiccup mode, r $10 \sim 14V$ Protection type Shut down o/p $-30 \sim +50^{\circ}C$ (R $20 \sim 95\%$ RH n $-40 \sim +80^{\circ}C$, 10 $10 \sim 500$ Hz, 20 UL1310, TUV E	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6 12min./1cycle, N61347-1, EN6	tically after fault 17 ~ 22V voltage, re-pow yer on to recove g Curve") period for 72mi	condition is rem 23 ~ 26V ver on to recover r n. each along X,	oved. 27 ~ 34V Y, Z axes	31~35V			
ENVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	Protection type Hiccup mode, r $10 \sim 14V$ Protection type Shut down o/p $-30 \sim +50^{\circ}C$ (R $20 \sim 95\%$ RH n $-40 \sim +80^{\circ}C$, 10 $+500$ Hz, 20 UL1310, TUV E I/P-O/P:3.75K	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6 12min./1cycle, :N61347-1, EN6	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1347-2-13, CAN	condition is rem 23 ~ 26V ver on to recover r n. each along X, //CSA C22.2 No.	oved. 27 ~ 34V Y, Z axes	31~35V	40 ~ 50V		
NVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 1I ±0.06%/°C (0 -10 ~ 500Hz, 20 UL1310, TUV E I/P-O/P:3.75K	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6 12min./1cycle, N61347-1, EN6 VAC Dhms / 500VDC	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1347-2-13, CAN	condition is rem 23 ~ 26V ver on to recover r n. each along X, /CSA C22.2 No.	7, Z axes 223-M91(except	31 ~ 35V for 48V), J61347	40 ~ 50V		
ENVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Protection type Hiccup mode, r $10 \sim 14V$ Protection type Shut down o/p $-30 \sim +50^{\circ}C$ (R $20 \sim 95\%$ RH n $-40 \sim +80^{\circ}C$, 11 $\pm 0.06\%/^{\circ}C$ (0 $-10 \sim 500$ Hz, 2C UL1310, TUV E I/P-O/P:3.75K I/P-O/P:100M (Compliance to	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH - 50°C) 6 12min./1cycle, :N61347-1, EN61 VAC Dhms / 500VDC EN55015, EN61	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1347-2-13, CAN / 25°C/70% RH 000-3-2 Class C	condition is rem 23 ~ 26V ver on to recover r n. each along X, /CSA C22.2 No	Y, Z axes 223-M91(except	31 ~ 35V for 48V), J61347	40 ~ 50V		
ENVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 1I ±0.06%/°C (0 10 ~ 500Hz, 2G UL1310, TUV E I/P-O/P:3.75K I/P-O/P:100M (Compliance to	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6 12min./1cycle, 6 161347-1, EN6 VAC Dhms / 500VDC EN55015, EN61 EN61000-4-2,3,	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1347-2-13, CAN / 25°C/ 70% RH 000-3-2 Class C 4,5,6,8,11, EN5	condition is rem 23 ~ 26V ver on to recover r n. each along X, /CSA C22.2 No	7, Z axes 223-M91(except	31 ~ 35V for 48V), J61347	40 ~ 50V		
SAFETY &	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 10 ±0.06%/°C (0 -10 ~ 500Hz, 20 UL1310, TUV E I/P-O/P:100M (C Compliance to Compliance to 625.5Khrs min.	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6 12min./1cycle, 6 161347-1, EN6 VAC Dhms / 500VDC EN55015, EN61 EN61000-4-2,3, MIL-HDBK-2	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1347-2-13, CAN / 25°C/ 70% RH 000-3-2 Class C 4,5,6,8,11, EN5	condition is rem 23 ~ 26V ver on to recover r n. each along X, /CSA C22.2 No	Y, Z axes 223-M91(except	31 ~ 35V for 48V), J61347	40 ~ 50V		
ENVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Protection type Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 1I ±0.06%/°C (0 10 ~ 500Hz, 2G UL1310, TUV E I/P-O/P:3.75K I/P-O/P:100M (Compliance to	ecovers automa 14 ~ 17V : Shut down o/p voltage, re-pow efer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6 12min./1cycle, 6 161347-1, EN6 VAC Dhms / 500VDC EN55015, EN61 EN61000-4-2,3, MIL-HDBK-2 (L*W*H)	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1347-2-13, CAN / 25°C/ 70% RH 000-3-2 Class C 4,5,6,8,11, EN5	condition is rem 23 ~ 26V ver on to recover r n. each along X, /CSA C22.2 No	Y, Z axes 223-M91(except	31 ~ 35V for 48V), J61347	40 ~ 50V		

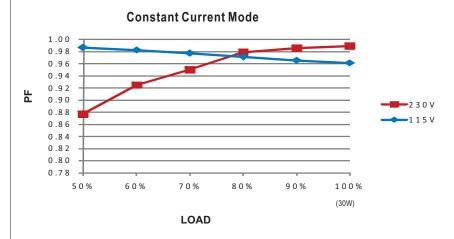
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 5. Output voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB.
- 6. Please refer to "DRIVING METHODS OF LED MODULE".
- 7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 8. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
- 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.





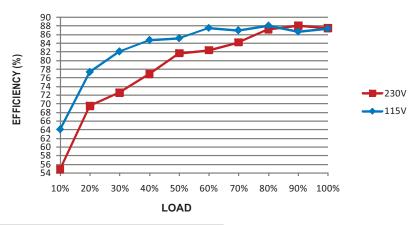


■ Power Factor Characteristic



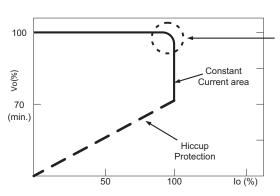
■ EFFICIENCY vs LOAD (48V Model)

PLC-30 series possess superior working efficiency that up to 85.5% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com