



■ 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 BS EN/EN61000-3-2 class C (Pin≥25W)
- Class II power unit, no FG
- · 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
- 2 years warranty

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx





		PLC-30-9	PLC-30-12	PLC-30-15	PLC-30-20	PLC-30-24	PLC-30-27	PLC-30-36	PLC-30-48	
	DC VOLTAGE	9V	12V	15V	20V	24V	27V	36V	48V	
OUTPUT	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		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								0.473 ~ 0.64	
	VOLTAGE TOLERANCE Note.3									
	LINE REGULATION	±3.0%								
	LOAD REGULATION	±5.0%								
	SETUP TIME									
INPUT		500ms / 230VAC 3000ms / 115VAC at full load								
		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) THD< 20% when output loading≧70% at 115VAC/230VAC input								
	TOTAL HARMONIC DISTORTION		· ·	ř						
	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 CURRENT	100 ~ 110%								
		Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	OVER CONNENT	Protection type	: Constant curre	ent limiting, reco	vers automatical	lly after fault con	dition is removed	d		
	SHORT CIRCUIT					·	dition is removed	j		
ROTECTION	SHORT CIRCUIT		e : Constant curre recovers automa 14 ~ 17V			·	dition is removed	40 ~ 50V	53 ~ 63V	
ROTECTION		Hiccup mode, r	ecovers automa 14 ~ 17V	tically after fault	condition is rem	oved.			53 ~ 63V	
ROTECTION	SHORT CIRCUIT OVER VOLTAGE	Hiccup mode, r 10 ~ 14V Protection type	recovers automa 14 ~ 17V e : Shut down o/p	tically after fault 17 ~ 22V voltage, re-pow	condition is rem 23 ~ 26V rer on to recover	oved.			53 ~ 63V	
ROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE	Hiccup mode, r 10 ~ 14V Protection type Shut down o/p	recovers automa 14 ~ 17V : Shut down o/p voltage, re-pow	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V rer on to recover	oved.			53 ~ 63V	
ROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP.	Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R	recovers automa 14 ~ 17V : Shut down o/p voltage, re-pow tefer to "Derating	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V rer on to recover	oved.			53 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY	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 lefer to "Derating on-condensing	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V rer on to recover	oved.			53 ~ 63V	
ROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Hiccup mode, r $10 \sim 14V$ Protection types Shut down o/p $-30 \sim +50$ °C (R $20 \sim 95\%$ RH m $-40 \sim +80$ °C, 10	ecovers automa 14 ~ 17V :: Shut down o/p voltage, re-pow tefer to "Derating on-condensing 0 ~ 95% RH	tically after fault 17 ~ 22V voltage, re-pow ver on to recove	condition is rem 23 ~ 26V rer on to recover	oved.			53 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	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 automated 14 ~ 17V at 15 Shut down o/p voltage, re-powdefer 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 er on to recover r	oved. 27 ~ 34V			53 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	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 (0-10 ~ 500Hz, 20	ecovers automated 14 ~ 17V 12: Shut down o/p voltage, re-powerer to "Derating on-condensing 0 ~ 95% RH 13: Shut down o/p voltage, re-powerer to "Derating on-condensing	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi	condition is rem 23 ~ 26V er on to recover r n. each along X,	oved. 27 ~ 34V Y, Z axes	31~35V	40 ~ 50V		
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	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 (0-10 ~ 500Hz, 2C UL1310, TUV B	ecovers automated 14 ~ 17V :: Shut down o/p voltage, re-pownefer to "Derating on-condensing 0 ~ 95% RH	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi	condition is rem 23 ~ 26V er on to recover r n. each along X,	oved. 27 ~ 34V Y, Z axes		40 ~ 50V		
NVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 1r ±0.06%/°C (0-10 ~ 500Hz, 20 UL1310, TUV B I/P-O/P:3.75K	ecovers automa 14 ~ 17V 1: Shut down o/p voltage, re-pow lefer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6: 12min./1cycle, IS EN/EN61347-1	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1, BS EN/EN613	condition is rem 23 ~ 26V er 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	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 10 ~ 500Hz, 20 UL1310, TUV B I/P-O/P:3.75K	ecovers automa 14 ~ 17V 1 : Shut down o/p voltage, re-pow lefer to "Derating on-condensing 0 ~ 95% RH 50°C) 6 12min./1cycle, S EN/EN61347-1 VAC Ohms / 500VDC	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1, BS EN/EN613	condition is rem 23 ~ 26V eer on to recover r n. each along X,	oved. 27 ~ 34V 27	31 ~ 35V -M91(except for 4	40 ~ 50V		
NVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	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 10 ~ 500Hz, 20 UL1310, TUV B I/P-O/P:3.75K I/P-O/P:100M 0 Compliance to	ecovers automa 14 ~ 17V 1 : Shut down o/p voltage, re-pow lefer to "Derating on-condensing 0 ~ 95% RH 50°C) 6 12min./1cycle, S EN/EN61347-1 VAC Ohms / 500VDC	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1, BS EN/EN613 / 25°C/70% RH 5,BS EN/EN610	condition is rem 23 ~ 26V eer on to recover r n. each along X,	oved. 27 ~ 34V 27	31~35V	40 ~ 50V		
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 1l ±0.06%/°C (0 10 ~ 500Hz, 20 UL1310, TUV B I/P-O/P:3.75K I/P-O/P:100M (0 Compliance to BS EN/EN610	ecovers automa 14 ~ 17V 15 Shut down o/p voltage, re-pow lefer to "Derating on-condensing 0 ~ 95% RH 50°C) 6 12min./1cycle, IS EN/EN61347-1 VAC Dhms / 500VDC BS EN/EN5501: 00-3-3,EAC TP 1	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1, BS EN/EN613 / 25°C/ 70% RH 5,BS EN/EN610	condition is rem 23 ~ 26V eer on to recover r n. each along X, 47-2-13, CAN/CS	oved. 27 ~ 34V Y, Z axes A C22.2 No. 223 (Pin≧25W), Cla	31 ~ 35V -M91(except for 4	8V), EAC TP TC (004 approved	
NVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 1l ±0.06%/°C (0· 10 ~ 500Hz, 2C UL1310, TUV B I/P-O/P:3.75K I/P-O/P:100M 0 Compliance to BS EN/EN610l Compliance to	ecovers automa 14 ~ 17V 15 Shut down o/p voltage, re-pow lefer to "Derating on-condensing 0 ~ 95% RH 50°C) 6 12min./1cycle, IS EN/EN61347-1 VAC Dhms / 500VDC BS EN/EN5501: 00-3-3,EAC TP 1	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1, BS EN/EN613 / 25°C/70% RH 5,BS EN/EN610 TC 020 0-4-2,3,4,5,6,8,1	condition is rem 23 ~ 26V eer on to recover r n. each along X, 47-2-13, CAN/CS	oved. 27 ~ 34V Y, Z axes A C22.2 No. 223 (Pin≧25W), Cla	-M91(except for 4	8V), EAC TP TC (004 approved	
NVIRONMENT	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	Hiccup mode, r 10 ~ 14V Protection type Shut down o/p -30 ~ +50°C (R 20 ~ 95% RH n -40 ~ +80°C, 1l ±0.06%/°C (0· 10 ~ 500Hz, 2C UL1310, TUV B I/P-O/P:3.75K I/P-O/P:100M 0 Compliance to BS EN/EN610l Compliance to	ecovers automa 14 ~ 17V 2: Shut down o/p voltage, re-pow lefer to "Derating on-condensing 0 ~ 95% RH ~ 50°C) 6: 12min./1cycle, S EN/EN61347-1 VAC Dhms / 500VDC BS EN/EN5501: 00-3-3,EAC TP 1 BS EN/EN61000 in. Telcordia SR-	tically after fault 17 ~ 22V voltage, re-pow ver on to recove g Curve") period for 72mi 1, BS EN/EN613 / 25°C/70% RH 5,BS EN/EN610 TC 020 0-4-2,3,4,5,6,8,1	condition is rem 23 ~ 26V eer on to recover r n. each along X, 47-2-13, CAN/CS	oved. 27 ~ 34V Y, Z axes A C22.2 No. 223 (Pin≧25W), Cla	-M91(except for 4 ss D (>70% load)	8V), EAC TP TC (004 approved	

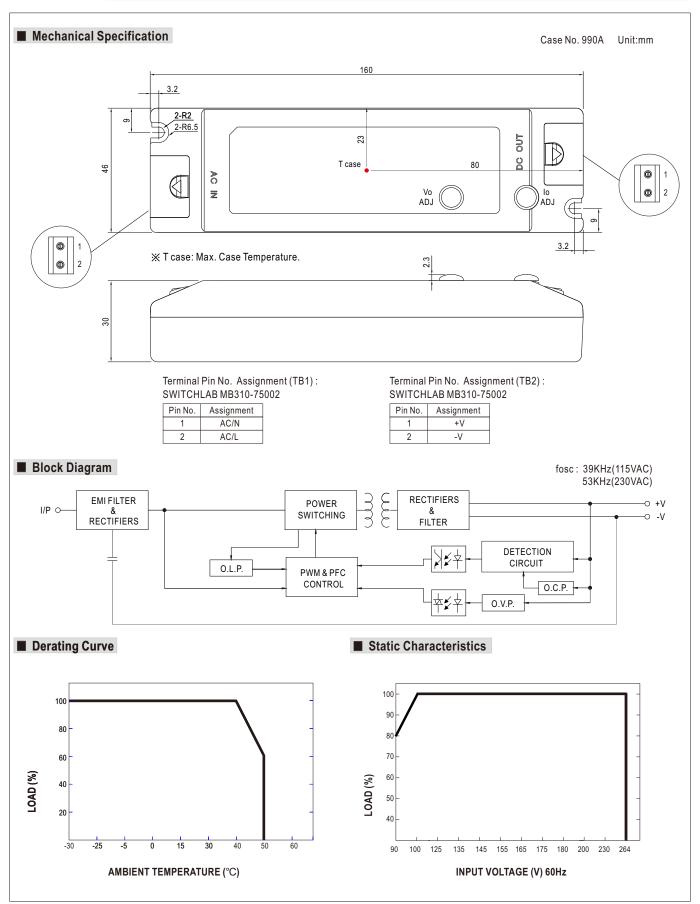
- Rippie & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1ut & 4/ut parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 Derating may be needed under low input voltage. Please check the static characteristics for more details.
 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.
 Please refer to "DRIVING METHODS OF LED MODULE".
 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.

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 Plicet composting to LEDs is supported by the post suitable for using additional drivers.
- (as available on https://www.meanwein.com//uploadPIP/EMI_statement_en.pdf)
 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.
 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating allitude higher than 2000m(6500ft).
 11. PLC-30-9 is used for any light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be use for signalling products (including, but not limited to road-, railway-, marineorair traffic-signalling , traffic control or airfield lamps).
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

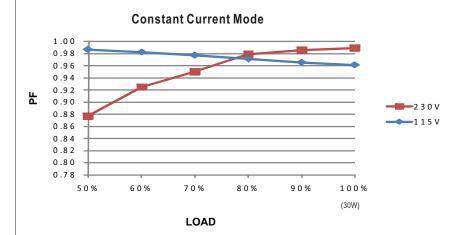






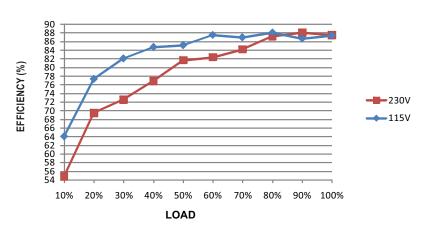


■ Power Factor Characteristic



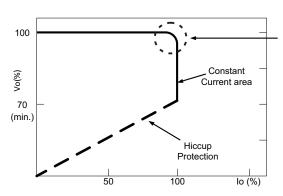
■ EFFICIENCY vs LOAD (48V Model)

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.