#### **MPACT LIGHTING INC'S POWER SUPPLY - 25W**

(as available on http://www.meanwell.com)

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

#### **APPLICATION**

- LED Lighting
- Moving Signs and Back Lighting
- Outdoor or Harsh Environment



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#### SPECIFICATION MODEL ILI-25-5 ILI-25-12 ILI -25-15 ILI -25-24 ILI -25-48 5V 8V DC VOLTAGE 5٧ 12V1 24V4 0.57A RATED CURRENT 5A 2.1A 1.7A 1.1A **CURRENT RANGE** 0 ~ 1.7A 0 ~ 1.1A 0 ~ 5A 0 ~ 2.1A 0~0.57A 25.2W 25.5W 26.4W **RATED POWER** 25W 27.36 W 240mVp-p RIPPLE & NOISE (max.) Note. 2 80mVp-p 120mVp-p 150mVp-p 200mVp-p OUTPUT 21.6 ~ 26.4V VOLTAGE ADJ. RANGE 4.75 ~ 5.5V 10.8 ~ 13.2V 13.5 ~ 16.5V 43.2 ~ 52.8V ±1.0% **VOLTAGE TOLERANCE** Note.3 ±2.0% ±1.0% ±1.0% ±1.0% **LINE REGULATION** ±0.5% ±0.5% Note. 4 ±0.5% $\pm 0.5\%$ ±0.5% LOAD REGULATION Note. 5 ±0.5% ±0.5% $\pm 0.5\%$ ±0.5% ±0.5% SETUP, RISE TIME 500ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load 50ms/230VAC HOLD UP TIME (Typ.) 10ms/115VAC at full load **VOLTAGE RANGE** 85 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz 84%8 6% 86% EFFICIENCY (Typ.) 78%8 3% INPUT AC CURRENT (Typ.) 0.55A/115VAC 0.35A/230VAC INRUSH CURRENT (Typ.) **COLD START 45A** LEAKAGE CURRENT <2mA / 240VAC 110 ~ 150% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed PROTECTION $5.75 \sim 6.75 \text{V}$ 13.8 ~ 16.2V 17.25 ~ 20.25V 27.6 ~ 32.4V 55.2 ~ 64.8V **OVER VOLTAGE** Protection type: Shut down o/p voltage, re-power on to recover -20 ~ +60°C (Refer to "Derating Curve") WORKING TEMP. WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP.. HUMIDITY -40 ~ +85°C, 10 ~ 95% RH ENVIRONMEN T TEMP. COEFFICIENT ±0.03%/°C (0 ~ 45°C) **VIBRATION** 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETYS TANDARDS UL60950-1, CB(IEC60950-1), CCC GB4943 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC SAFETY& ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC (Note 6) **EMC EMISSION** Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3 Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, EN55024, EN61000-6-1, light industry level, criteria A **EMC IMMUNITY** MTBF MIL-HDBK-217F (25°C) 411.47Khrs min. **OTHERS** DIMENSIO N 99\*82\*35mm (L\*W\*H) 0.3Kg; 45pcs/14.5Kg/0.66CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. 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."



### **MPACT LIGHTING INC'S POWER SUPPLY - 35W**

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

#### **APPLICATION**

- LED Lighting
- Moving Signs and Back Lighting
- Outdoor or Harsh Environment



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SPECIFICA	A LION				1							
MODEL		ILI-35-5	ILI-35-12	ILI -35-15	ILI-35-24	ILI-35-48						
	DC VOLTAGE	5V	12V1	5V	24V4	8V						
	RATED CURRENT	7A	3A	2.4A	1.5A	0.8A						
	CURRENT RANGE	0 ~ 7A	0 ~ 3A	0~2.4A	0 ~ 1.5A	0 ~ 0.8A						
	RATED POWER	35W3	6W	36W3	6W	38.4W						
	RIPPLE & NOISE (max.) Note. 2	80mVp-p	120mVp-p	150mVp-p	200mVp-p	240mVp- p						
OUTPUT	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V						
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%						
	LINE REGULATION Note. 4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	LOAD REGULATION Note. 5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	SETUP, RISE TIME	500ms, 30ms/230VAC	00ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load									
	HOLD UP TIME (Typ.)	50ms/230VAC 10ms	0ms/230VAC 10ms/115VAC at full load									
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 3	370VDC									
	FREQUENCY RANGE	47 ~ 63Hz										
INPUT	EFFICIENCY (Typ.)	78%8	1%	83%8	5%	86%						
	AC CURRENT (Typ.)	0.75A/115VAC 0.5	0.75A/115VAC 0.5 A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 45A										
	LEAKAGE CURRENT	<2mA / 240VAC										
	0.750.000	110 ~ 150% rated output power										
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed										
PROTECTION	01/50 1/01 54 05	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	55.2 ~ 64.8V						
	OVER VOLTAGE	Protection type : Shut do	wn o/p voltage, re-power o	n to recover								
	WORKING TEMP.	-20 ~ +60°C (Refer to "De	erating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-conder	nsing									
ENVIRONMEN T	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RI	Н									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1	cycle, period for 60min. ea	ch along X, Y, Z axes								
	SAFETY STANDARDS	UL60950-1, CB(IEC6095	0-1),CCC GB4943 approve	ed								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG	:1.5KVAC O/P-FG:0.5K	/AC								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:	100M Ohms / 500VDC / 25	°C / 70% RH								
(Note 6)	EMC EMISSION	Compliance to EN55022	(CISPR22) Class B, EN61	000-3-2,-3								
	EMC IMMUNITY	Compliance to EN61000-	4-2, 3, 4, 5, 6, 8,11, EN550	024, EN61000-6-1, light inc	lustry level, criteria A							
	MTBF	394Khrs min. MIL-HDE	3K-217F (25°ℂ)									
OTHERS	DIMENSIO N	99*97*36mm (L*W*H)										
	PACKING	0.36Kg; 45pcs/17.2Kg/0.9	93CUFT									
NOTE	Ripple & noise are measure     Tolerance : includes set up     Line regulation is measurec     Load regulation is measure     The power supply is conside EMC directives. For guidan	G   0.36kg; 4spcs/17.2kg/0.93CUF1  parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  ble & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  brance: includes set up tolerance, line regulation and load regulation.  regulation is measured from low line to high line at rated load.  d regulation is measured from 0% to 100% rated load.  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  C directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  available on http://www.meanwell.com)										

#### **MPACT LIGHTING INC'S POWER SUPPLY - 50W**

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

#### **APPLICATION**

- LED Lighting
- Moving Signs and Back Lighting
- Outdoor or Harsh Environment



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SPEUIFIU	111011		1	1								
MODEL		NES-50-5N	ES-50-12	NES-50-15	NES-50-24	NES-50-48						
	DC VOLTAGE	5V	12V1	5V	24V4	8V						
	RATED CURRENT	10A	4.2A	3.4A	2.2A	1.1A						
	CURRENT RANGE	0 ~ 10A	0 ~ 4.2A	0 ~ 3.4A	0 ~ 2.2A	0 ~ 1.1A						
	RATED POWER	50W	50.4W	51W	52.8W	52.8W						
	RIPPLE & NOISE (max.) Note. 2	80mVp-p	120mVp-p	150mVp-p	200mVp-p	240mVp- p						
OUTPUT	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V						
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%						
	LINE REGULATION Note. 4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	LOAD REGULATION Note. 5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	SETUP, RISE TIME	500ms, 30ms/230VAC	1200ms, 30ms/115VAC	at full load	•	•						
	HOLD UP TIME (Typ.)	50ms/230VAC 10ms/115VAC at full load										
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 3	370VDC									
	FREQUENCY RANGE	47 ~ 63Hz										
INPUT	EFFICIENCY(T yp.)	79%8	82%	3%	86%8	7%						
INI O I	AC CURRENT (Typ.)	1.1A/115VAC 0.65A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 45A										
	LEAKAGE CURRENT	<2mA / 240VAC	<2mA / 240VAC									
	OVEDI OAD	110 ~ 150% rated output power										
DDOTEOTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed										
PROTECTION	OVED VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25	27.6 ~ 32.4V	55.2 ~ 64.8V						
	OVER VOLTAGE	Protection type : Shut do	wn o/p voltage, re-power o	n to recover								
	WORKING TEMP.	-20 ~ +60°C (Refer to "De	erating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-conder	nsing									
ENVIRONMEN T	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% R	Н									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1	cycle, period for 60min. ea	ch along X, Y, Z axes								
	SAFETY STANDARDS	UL60950-1, CB(IEC6095	0-1),CCC GB4943 approv	ed								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG	:1.5KVAC O/P-FG:0.5K	VAC								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:	100M Ohms / 500VDC / 25	°C / 70% RH								
(Note 6)	EMC EMISSION	Compliance to EN55022	(CISPR22) Class B, EN61	000-3-2,-3								
	EMC IMMUNITY	Compliance to EN61000-	4-2,3,4,5,6,8,11, EN55024	, EN61000-6-1, light indus	try level, criteria A							
	MTBF	374.2K hrs min. MIL-H	IDBK-217F (25°ℂ)									
OTHERS	DIMENSIO N	129*98*38mm (L*W*H)										
	PACKING	0.41Kg; 45pcs/19.5Kg/1.	24CUFT									
NOTE	PACKING  0.41Kg; 45pcs/19.5Kg/1.24CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  3. Tolerance: includes set up tolerance, line regulation and load regulation.  4. Line regulation is measured from low line to high line at rated load.  5. Load regulation is measured from 0% to 100% rated load.  6. 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)											



### **MPACT LIGHTING INC'S POWER SUPPLY - 75W**

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

#### **APPLICATION**

- LED Lighting
- Moving Signs and Back Lighting
- Outdoor or Harsh Environment



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MODEL		ILI-75-5	ILI-75-12	ILI-75-15	ILI-75-24	ILI-75-48					
	DC VOLTAGE	5V	12V1	5V	24V4	8V					
	RATED CURRENT	14A	6.2A	5A	3.2A	1.6A					
	CURRENT RANGE	0 ~ 14A	0 ~ 6.2A	0 ~ 5A	0 ~ 3.2A	0 ~ 1.6A					
	RATED POWER	70W	74.4W	75W	76.8W	76.8W					
	RIPPLE & NOISE (max.) Note. 2	80mVp-p	120mVp-p	150mVp-p	200mVp-p	240mVp- p					
OUTPUT	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V					
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%					
	LINE REGULATION Note. 4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%					
	LOAD REGULATION Note. 5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%					
	SETUP, RISE TIME	500ms, 30ms/230VAC									
	HOLD UP TIME (Typ.)	50ms/230VAC 10ms									
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 3	370VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	EFFICIENCY (Typ.)	77%8	82%	3%	86%8	7%					
INFOI	AC CURRENT (Typ.)	1.5A/115VAC 0.9A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 45A									
	LEAKAGE CURRENT	<2mA/240VAC									
	OVEDLOAD	105 ~ 135% 110 ~ 150% rated output power									
DDOTECTION	OVERLOAD	Protection type : Hiccup r	node, recovers automatica	, recovers automatically after fault condition is removed							
PROTECTION	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25	27.6 ~ 32.4V	55.2 ~ 64.8V					
	OVER VOLIAGE	Protection type : Shut do									
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMEN T	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% R	Н								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1	cycle, period for 60min. ea	ch along X, Y, Z axes							
	SAFETY STANDARDS	UL60950-1, CB(IEC60950-1), CCC GB4943 approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG	:1.5KVAC O/P-FG:0.5K	/AC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:	100M Ohms / 500VDC / 25	℃/70% RH							
(Note 6)	EMC EMISSION	Compliance to EN55022	(CISPR22) Class B, EN61	000-3-2,-3							
	EMC IMMUNITY	Compliance to EN61000-	4-2,3,4,5,6,8,11, EN55024	, EN61000-6-1, light indus	try level, criteria A						
	MTBF	378.2K hrs min. MIL-H	IDBK-217F (25°C)								
OTHERS	DIMENSIO N	159*97*38mm (L*W*H)									
	PACKING	0.52Kg; 30pcs/16.6Kg/0.									
NOTE	Ripple & noise are measure     Tolerance : includes set up     Line regulation is measured     Load regulation is measure     The power supply is consider.	ed at 20MHz of bandwidth tolerance, line regulation d from low line to high line d from 0% to 100% rated lered a component which ice on how to perform the	entioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  rance, line regulation and load regulation.  In low line to high line at rated load.  In 0% to 100% rated load.  In a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets in how to perform these EMC tests, please refer to "EMI testing of component power supplies."								

#### **MPACT LIGHTING INC'S POWER SUPPLY - 100W**

- Universal AC input / Full range
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

#### **APPLICATION**

- LED Lighting
- Moving Signs and Back Lighting
- Outdoor or Harsh Environment





#### SPECIFICATION

SPECIFICA	ATION										
<b>MODEL</b>		ILI -100-5	ILI-100-7. 5I	ILI-100-9	ILI-100-12	LI -100-15	ILI-100-24	ILI-100-48			
	DC VOLTAGE	5V	7.5V	9V	12V	15V2	4V	48V			
	RATED CURRENT	20A	13.6A	11.2A	8.5A	7A	4.5A	2.3A			
	CURRENT RANGE	0 ~ 20A	0 ~ 13.6A	0 ~ 11.2A	0 ~ 8.5A	0 ~ 7A	0 ~ 4.5A	0 ~ 2.3A			
	RATED POWER	100W	102W	100.8W	102W	105W	108W1	10.4W			
	RIPPLE & NOISE (max.) Note. 2	80mVp-p	120mVp-p	120mVp- p	120mVp-p	120mVp-p	120mVp-p	150mVp-p			
DUTPUT	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	7.13 ~ 8.3V	8.55 ~ 9.9V	11.4 ~ 13.2V	14.25 ~ 16.5V	22.8 ~ 26.4V	45.6 ~ 52.8V			
	VOLTAGE TOLERANCE Note. 3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION Note. 4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION Note. 5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	500ms, 20ms/23	0VAC 500ms	s, 20ms/115VAC a	t full load	•					
	HOLD UP TIME (Typ.)	30ms/230VAC	25ms/115VAC	at full load							
	VOLTAGE RANGE	85 ~ 132VAC / 17	6 ~ 264VAC select	ed by switch	248 ~ 373VDC						
	FREQUENC YR ANGE	47 ~ 63Hz									
NPUT	EFFICIENCY (Typ.)	80%8	81%8	81%	3%	4%	86%8	6%			
IIVI O I	AC CURRENT (Typ.)	2A/115VAC 1.2A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 36A									
	LEAKAGE CURRENT	<2mA/240VAC									
		110 ~ 150% rated output power									
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		5.75 ~ 6.75V	8.6 ~ 10.1V	10.4 ~ 12.2V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	55.2 ~ 64.8\			
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
	WORKING TEMP.	-20 ~ +60°C (Ref	-20 ~ +60°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH nor	n-condensing								
NVIRONMEN T	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ·	~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 5	50°C)								
	VIBRATION	10 ~ 500Hz, 2G	10min./1cycle, peri	od for 60min. each	along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, CB(IEC60950-1),CCC GB4943 approved									
SAFETY &	WITHSTAND VOLTAGE	//P-O/P:3KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P. I/P-FG.	D/P-FG:100M Ohm	ns / 500VDC / 25°C	/ 70% RH						
Note 6)	EMC EMISSION	, ,	N55022 (CISPR22								
	EMC IMMUNITY				·	industry level, criter	ia A				
	MTBF	320.7Khrs min.	MIL-HDBK-217F	(25°C)							
OTHERS	DIMENSIO N	159*97*38mm (L									
	PACKING	0.55Kg; 30pcs/17.5Kg/0.97CUFT									
NOTE	All parameters not specially     Ripple & noise are measure     Tolerance : includes set up     Line regulation is measure     Load regulation is measure     The power supply is consider.	ed at 20MHz of bat tolerance, line red from low line to do from 0% to 100 ered a componer	andwidth by using gulation and load i nigh line at rated lo % rated load. It which will be ins	a 12" twisted pair regulation. coad. talled into a final e	-wire terminated we equipment. The fin	vith a 0.1uf & 47uf p al equipment must	be re-confirmed t	hat it still meets			

. 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)



### **MPACT LIGHTING INC'S POWER SUPPLY - 150W**

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- High efficiency, long life and high reliability
- 2 years warranty

#### **APPLICATION**

- **LED Lighting**
- Moving Signs and Back Lighting
- Outdoor or Harsh Environment





MODEL		ILI -150-3.3	ILI -150-5	ILI -150-7.5	ILI-150-98	ILI -150-12	ILI -150-15	ILI -150-24	ILI -150-4				
	DC VOLTAGE	3.3V	5V	7.5V	9V	12V	15V	24V	48V				
	RATED CURRENT	30A2	6A	20A	16.7A	12.5 A	10A	6.5A	3.3A				
	CURRENT RANGE	0 ~ 30A	0 ~ 26A	0 ~ 20A	0 ~ 16.7A	0 ~ 12.5A	0 ~ 10A	0 ~ 6.5A	0 ~ 3.3A				
	RATED POWER	99W	130W	150W	150W	150W	150W	156W	158.4W				
	RIPPLE & NOISE (max.) Note. 2	80mVp-p	80mVp-p	120mVp-p	120mVp- pp	120mVp-p	120mVp-p	120mVp-p	200mVp-				
OUTPUT	VOLTAGE ADJ. RANGE	3.2 ~ 3.5V	4.75 ~ 5.5V	7.13 ~ 8.3V	8.55 ~ 9.9V	11.4 ~ 13.5V	14.25 ~ 16.5V	22.8 ~ 27.6V	45.6 ~ 52.8V				
	VOLTAGE TOLERANCE Note. 3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION Note. 5	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	SETUP, RISE TIME Note. 7	800ms, 20ms/2	00ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load										
	HOLD UP TIME (Typ.)	24ms/230VAC	20ms/115V	AC at full load									
	VOLTAGE RANGE	90 ~ 132VAC /	180 ~ 264VAC se	elected by switch	254 ~ 373	SVDC							
	FREQUENCY RANGE	47 ~ 63Hz											
INPUT	EFFICIENC Y( Typ.)	73%	78%	80%	83%	83%	83%	86%	86%				
IIVI O I	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START	COLD START 45A/230VAC										
	LEAKAGE CURRENT	<2mA/240VAC											
	OVERLOA D	110 ~ 150% rated output power											
PROTECTION	OVERLOND					condition is remo			T				
	OVER VOLTAGE	3.8 ~ 4.65V   5.75 ~ 6.75V   8.6 ~ 10.1V   10.4 ~ 12.2V   13.8 ~ 16.2V   17.25 ~ 20.25V   27.6 ~ 32.4V   55.2 ~ 62.4V											
		Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)											
	WORKING HUMIDITY	20 ~ 90% RH n											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)  10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
	VIBRATION			•		Y, Z axes							
	SAFETYS TANDARDS		IV EN60950-1,G										
SAFETY&	WITHSTAND VOLTAGE		I/P-FG:1.5K\										
EMC	ISOLATION RESISTANCE		, O/P-FG:100M										
(Note 6)	EMI CONDUCTION & RADIATION				39254 CLASS B								
	HARMONIC CURRENT		EN61000-3-2,-3										
	EMS IMMUNITY	Compliance to	EN61000-4-2, 3	, 4, 5, 6, 8,11, EN	NV50204, EN550	24, EN61000-6-1	, heavy industry	level, criteria A					
	MTBF	433.3Khrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	199*98*38mm (L*W*H)											
	PACKING	0.7Kg; 20pcs/1	•										
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. 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 n EMC directives. 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.												

#### MPACT LIGHTING INC'S POWER SUPPLY - 200W

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- Cooling by free air convection
- Withstand 300vac surge input for 5 second
- Built-in constant current limiting circuit
- 100% full load burn-in test
- LED indicator for power on
- Fixed switching frequency at 90KHz
- Low cost, high reliability
- 2 years warranty



#### **SPECIFICATION** MODEL ILI-200-3.3 ILI-200-5 ILI-200-7.5 ILI-200-27 ILI-200-36 ILI-200-48 ILI-200-12 ILI-200-15 ILI-200-24 DC VOLTAGE 3.3V 5V 7.5V 12V 15V2 4V 27V 36V 48V RATED CURRENT 40A 40A 27A 17A 14A8 .8A7 .8A 5.9A 4.4A 0 ~ 27A **CURRENT RANGE** 0 ~ 40A 0 ~ 40A 0 ~ 17A 0 ~ 14A 0~8.8A 0 ~ 7.8A 0 ~ 5.9A 0~4.4A RATED POWER 132W 200W 202.5W 204W 210W2 11.2W 210.6W 212.4W 211.2W RIPPLE & NOISE (max.) Note. 2 150mVp-p 150mVp-p 150mVp-p 150mVp-p 150mVp-p 150mVp-p 200mVp-p 240mVp-p 240mVp-p OUTPUT **VOLTAGE ADJ. RANGE** 2.97 ~ 3.7V 4.5 ~ 5.6V 6 ~ 9V 10 ~ 13.5V 13.5 ~ 18V 20 ~ 26.4V 26 ~ 32V 32 ~ 40V 41 ~ 56V ±1.0% ±1.0% **VOLTAGE TOLERANCE** Note.3 ±2.0% ±2.0% ±2.0% ±1.0% ±1.0% ±1.0% ±1.0% LINE REGULATION ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% +0.5% +0.5% +0.5% LOAD REGULATION ±1.5% ±1.0% ±1.0% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% SETUP, RISE TIME 1000ms, 50ms/230VAC 1000ms,50ms/115VAC at full load **HOLD UP TIME** 20ms/230VAC 16ms/115VAC at full load 90 ~ 132VAC / 180 ~ 264VAC by switch **VOLTAGE RANGE** 254 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz 85% 85%8 7% 88% 89% 89% EFFICIENCY (Typ.) 75% 79% 82% INPUT **AC CURRENT** 4.5A/115VAC 2.5A/230VAC **INRUSH CURRENT (max.)** 55A/230VAC 40A/115VAC LEAKAGE CURRENT <3.5mA / 240VAC 105 ~ 150% rated output power **OVER LOAD** Protection type: Constant current limiting, recovers automatically after fault condition is removed 3.8 ~ 4.9V | 5.75 ~ 6.75V | 9.4 ~ 10.9V | 13.8 ~ 16.2V | 18 ~ 21V 27.6 ~ 32.4V | 33.7 ~ 39.2V | 41.4 ~ 46.8V | 57.6 ~ 67.2V **OVER VOLTAGE** PROTECTION Protection type: Shut down O/P voltage, re-power on to recover 95°C±5°C (3.3V);100°C±5°C (5V); 90°C±5°C (7.5V);85°C±5°C (12~24V);80°C±5°C (27~36V);75°C±5°C (48V) (TSW1) Detect on case **OVER TEMPERATURE** Protection type: Shut down O/P voltage, recovers automatically after temperature goes down -20 ~ +50°C (Refer to output load derating curve) WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY ENVIRONMEN T** STORAGE TEMP., HUMIDITY -20 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes **VIBRATION** SAFETY STANDARDS UL60950-1 approved I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC WITHSTAND VOLTAGE SAFETY & ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC EMI CONDUCTION & RADIATION** Design refer to EN55022 (CISPR22) Class A **EMS IMMUNITY** Design refer to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN55024, light industry level, criteria A MTBF MIL-HDBK-217F (25°C) 271.9K hrs min. DIMENSIO N 215\*115\*50mm (L\*W\*H) **OTHERS PACKING** 0.93Kg; 12pcs/12Kg/0.92CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation.



### **MPACT LIGHTING INC'S POWER SUPPLY - 300W**

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- · Forced air cooling by built-in DC fan
- Withstand 300vac surge input for 5 second
- Built-in cooling Fan ON-OFF control
- · Built-in constant current limiting circuit
- 100% full load burn-in test
- · LED indicator for power on
- Fixed switching frequency at 90KHz
- · Low cost, high reliability
- 2 years warranty



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MODEL		ILI-350-3. 3	ILI-350- 5	ILI-350-7. 5	ILI-350-1 2	ILI-350-15	ILI-350-2 4	ILI-350-27	ILI-350-36	ILI-350-48		
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V		
	RATED CURRENT	60A	60A	46A	29A	23.2 A	14.6A	13A	9.7A	7.3A		
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 46A	0 ~ 29A	0 ~ 23.2A	0 ~ 14.6A	0 ~ 13A	0~9.7A	0 ~ 7.3A		
	RATED POWER	198W	300W	345W	348W	348W	350.4W	351W	349.2W	350.4W		
	RIPPLE & NOISE (max.) Note. 2	150mVp-p	150mVp- p	150mVp-p	150mVp- p	150mVp-p	150mVp-p	200mVp-p	240mVp- p	240mVp- p		
OUTPUT	VOLTAGE ADJ. RANGE	2.97 ~ 3.7V	4.5 ~ 5.6V	6~9V	10 ~ 13.5V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 32V	32~40V	41 ~ 56V		
	VOLTAGE TOLERANCE Note. 3	+3%,-4.5%	±3.0%	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.5%	±2.0%	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 50m	s/230VAC	1000ms,50m	s/115VAC at fi	ull load						
	HOLD UP TIME (Typ.)	20ms/230VAC 16ms/115VAC at full load										
	VOLTAGE RANGE	90 ~ 132VAC	/ 180 ~ 264VA	AC by switch	254 ~ 370V	DC						
	FREQUENCY RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch 254 ~ 370VDC 47 ~ 63Hz										
	EFFICIENC Y( Typ.)	74%	78%	80%	83%	84%	87%	88%	87.5%	87.5%		
INPUT	AC CURRENT (Typ.)	7A/115VAC	4A/230VA			1	1-1-7-	1	-	-		
	INRUSH CURRENT (Typ.)	40A/115VAC 60A/230VAC										
	LEAKAGE CURRENT	<.p>40A/110VAC 60A/250VAC <3.5mA/240VAC										
	OVER LOAD	105 ~ 135% rated output power										
	OVER LOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	OVER VOLTAGE	3.8~4.6V   5.75~7.5V   9.4~11.25V   13.8~16.2V   18~21V   27.6~32.4V   33.7~39.2V   41.4~46.8 V   57.6~										
		Protection type: Shut down O/P voltage, re-power on to recover										
	OVER TEMPERATURE	85°C±5°C (3.3~7.5V); 80°C±5°C (12V); 75°C±5°C (15~48V) (TSW1) Detect on case										
		Protection type: Shut down O/P voltage, recovers automatically after temperature goes down										
FUNCTION	FAN ON/OFF CONTROL(Typ.)		$RTH2 \ge 50^{\circ}C$ FAN ON, $\le 45^{\circ}C$ FAN OFF $(3.3 \sim 7.5V)$									
	( ),	-		50°C FAN OFF	, ,							
	WORKING TEMP.			ut load derating	curve)							
	WORKING HUMIDITY	20 ~ 90% RH	non-condens	ing								
ENVIRONMEN T	STORAGE TEMP., HUMIDITY	-20 ~ +85℃,	10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0	)~50°C)									
	VIBRATION	10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes										
	SAFET YS TANDARD S	UL60950-1 a	pproved									
SAFETY&	WITHSTAND VOLTAGE	I/P-O/P:3KVA	AC I/P-FG:1	.5KVAC O/P	-FG:0.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms/500	VDC / 25°C / 70	% RH						
	EMI CONDUCTION & RADIATION	Design refer	to EN55022 (0	CISPR22) Clas	s A							
	EMS IMMUNITY	Design refer to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN55024, light industry level, criteria A										
	MTBF	234.3K hrs m	in. MIL-HD	BK-217F (25°C	(2)							
OTHERS	DIMENSION	215*115*50m										
	PACKING	1.07Kg; 12pc	s/13.5Kg/0.92	2CUFT								
NOTE	All parameters NOT special     Ripple & noise are measure     Tolerance : includes set up	d at 20MHz of	bandwidth by	using a 12" tw	isted pair-wire				acitor.			