





Features

- Constant Voltage PWM style output with frequency 1KHz
- · PCB type design
- Built-in active PFC function
- No load power consumption<0.5W(Blank-Type)
- Function options: 2 in 1 dimming (dim-to-off);
 Auxiliary DC output
- · 3 years warranty

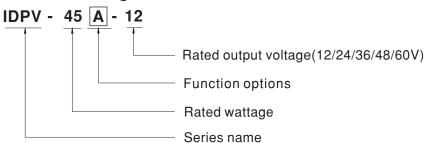
Applications

- LED strip lighting
- Indoor LED lighting
- · LED decorative lighting
- · LED architecture lighting

Description

IDPV-45 series is a 45W PCB type AC/DC LED driver featuring the constant voltage mode PWM style output design. IDPV-45 operates from $90\sim295$ VAC and offers models with different rated voltage ranging between 12V and 60V. Thanks to the high efficiency up to 90%, with the fanless design, the entireseries is able to operate for $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ambient temperature under free air convection. IDPV-45 is equipped with various function options, such as dimming methodologies, so as to provide the design flexibility for LED lighting system.

Model Encoding

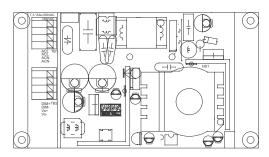


Type	Function	
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	
Α	2 in 1 dimming and Auxiliary DC output	

SPECIFICATION

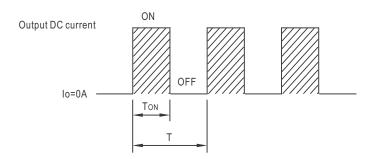
DC VOLTAGE	MODEL		IDPV-45□-12	IDPV-45□-24	IDPV-45□-36	IDPV-45□-48	IDPV-45□-60	
NATED POWER 36W 45.12W 45W 45.12W 45.12		DC VOLTAGE	12V	24V	36V	48V	60V	
DIMMING RANGE		RATED CURRENT	3.0A	1.88A	1.25A	0.94A	0.75A	
OUTLAGE TOLERANCE		RATED POWER	36W	45.12W	45W	45.12W	45W	
VOLTAGE TOLERANCE		DIMMING RANGE	0~100%				-	
SETUP TIME Note.3 500ms / 230VAC 1200ms / 115VAC	OUTPUT	VOLTAGE TOLERANCE	±10%					
AUXILIARY DC OUTPUT News Nominal 12V(deviation 11.4-12.6)@50mA for A-Type only		PWM FREQUENCY (Typ.)	1KHz(±20%)					
VOLTAGE RANGE Note 2 90 - 295VAC 127 - 417VDC (Please refer to "STATIC CHARACTERISTIC" section)		SETUP TIME Note.3						
		AUXILIARY DC OUTPUT Note.4	Nominal 12V(deviation 11.4~12.6)@50mA for A-Type only					
NPUTE POWER FACTOR (Typ.) PF>0.95/115VAC, PF>0.92/230VAC, PF>0.92/270VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section		VOLTAGE RANGE Note.2						
INPUT		FREQUENCY RANGE	i i i i i i i i i i i i i i i i i i i					
INPUT FFICIENCY (Typ.) 84% 86% 88% 88% 88% 90%	INDUT	POWER FACTOR (Typ.)						
EFFICIENCY (Typ.) 84% 86% 88% 88% 89% 90% AC CURRENT (Typ.) 0.6A / 115VAC 0.4A / 230VAC 0.3A / 277VAC INRUSH CURRENT(Typ.) COLD START 30A(twidth=150 _{µs} measured at 50% lpeak) at 230VAC; Per NEMA 410 MAX. No. of PSUs on 16A CIRCUIT BREAKER 32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC EAKAGE CURRENT C.0.75mA / 277VAC NO LOAD POWER CONSUMPTION C.0.5W for Blank-Type, <1.2W for A-Type SHORT CIRCUIT Shut down O/P voltage, re-power on to recovery		TOTAL HARMONIC DISTORTION						
INRUSH CURRENT(Typ.) COLD START 30A(twidth=150µs measured at 50% peak) at 230VAC; Per NEMA 410 MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT NO LOAD POWER CONSUMPTION 0 - 0.5W for Blank-Type, <1.2W for A-Type SHORT CIRCUIT Shut down O/P voltage, re-power on to recovery PROTECTION OVER CURRENT WORKING TEMP. 105 - 115% Protection type : Hiccup mode, recovers automatically after fault condition is removed WORKING HUMIDITY 20 ~ 90% RH non-condensing ENVIRONMENT TEMP. COEFFICIENT ±0.03%/°C (0 ~ 40°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY \$ SAFETY STANDARDS U1875 CSA C22.2 NO.250, 13-12;ENEC BS EN/EN61347-1 & BS EN/EN61347-2-13 independent, BS EN/EN62384, GB19510.1, GB19510.14 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:3.75KVAC EMC EMISSION Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3,GB17743, EMC IMMUNITY COmpliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120°6.5*22mm (L*W*H) PACKING 0.14Kg,81pcs/12.5Kg/1.32CUFT NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages, Ploase refer to "STATIC CHARACTERISTIC" sections of details. 4. Aux. 12V will be damaged with short circuit; it will not be available with dimming off or output no load condition as without permane diffected by the complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again.	01	EFFICIENCY (Typ.)	84%	86%	88%	88%	90%	
MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OLOAD POWER CONSUMPTION NOLOAD POWER CONSUMPTION OVER CURRENT OVER CURRENT OVER CURRENT Ta=20 ~ +40°C (Please refer to *OUTPUT LOAD vs TEMPERATURE* section) WORKING TEMP. WORKING TEMP. Ta=20 ~ +40°C (Please refer to *OUTPUT LOAD vs TEMPERATURE* section) WORKING HUMIDITY 20 ~ 90% RH non-condensing WORKING HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT TEMP. COEFFICIENT UBATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes WITHSTAND VOLTAGE IN-0/P:3.75KVAC WITHSTAND VOLTAGE IN-0/P:3.75KVAC SOUND COMPISSION Compliance to BS EN/EN6300-4-2, 3, 4,5 6,8, 41; BS EN/EN61547, light industry level(surge immunity:Line MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) OTHERS MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120°66.5*22mm (L*W*H) PACKING 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ONOFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; it will not be available with dimming off or output no load condition is removed. BY Compliance to BS EN/EN61000-4-2, 3, 4, 5, 6, 8, 41; BS EN/EN61547. Get ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ONOFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; it will not be available with dimming off or output no load conditions. 5. The driver 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 Dire		AC CURRENT (Typ.)	0.6A / 115VAC 0.4	A / 230VAC 0.3A /	277VAC		•	
CIRCUIT BREAKER S2 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT		INRUSH CURRENT(Typ.)	COLD START 30A(twi	dth=150μs measured a	t 50% Ipeak) at 230VA	C; Per NEMA 410		
NO LOAD POWER CONSUMPTION <0.5W for Blank-Type, <1.2W for A-Type			32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC					
SHORT CIRCUIT Shut down O/P voltage, re-power on to recovery		LEAKAGE CURRENT	<0.75mA/277VAC					
SHORT CIRCUIT Shut down O/P voltage, re-power on to recovery		NO LOAD POWER CONSUMPTION	<0.5W for Blank-Type	, <1.2W for A-Type				
WORKING TEMP. Ta=-20 ~ +40°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)		SHORT CIRCUIT						
Protection type : Hiccup mode, recovers automatically after fault condition is removed WORKING TEMP. Ta=-20 ~ +40°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH	PROTECTION							
ENVIRONMENT ENVI		OVER CURRENT	Protection type : Hiccup mode, recovers automatically after fault condition is removed					
ENVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 40°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL8750,CSA C22.2 NO.250.13-12;ENEC BS EN/EN61347-1 & BS EN/EN61347-2-13 independent, BS EN/EN62384,GB19510.1,GB19510.14 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMC EMISSION Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥60%); BS EN/EN61000-3-3,GB17743, EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120°66.5°22mm (L*W*H) PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver is considered as a component that will be operated in combination with final equipments. Since EMC performance will be affected by the complete installation, the final equipment munifacturers murfacturers may lead to on the complete installation again. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permane		WORKING TEMP.	Ta=-20 ~ +40°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
TEMP. COEFFICIENT ±0.03%/°C (0 ~ 40°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes LL8750,CSA C22.2 NO.250.13-12;ENEC BS EN/EN61347-1.8 BS EN/EN61347-2-13 independent, BS EN/EN62384,GB19510.1,GB19510.14 approved WITHSTAND VOLTAGE 1/P-O/P:3.75KVAC ISOLATION RESISTANCE 1/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3,GB17743, EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120*66.5*22mm (L*W*H) PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver 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. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permane		WORKING HUMIDITY						
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SAFETY STANDARDS SAFETY STANDARDS UL8750,CSA C22.2 NO.250.13-12;ENEC BS EN/EN61347-1 & BS EN/EN61347-2-13 independent, BS EN/EN62384,GB19510.1,GB19510.14 approved		TEMP. COEFFICIENT	±0.03%/°C (0 ~ 40°C)					
SAFETY STANDARDS BS EN/EN62384,GB19510.1,GB19510.14 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3,GB17743, EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120*66.5*22mm (L*W*H) PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver 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. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permane		VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC EMC EMISSION	UL8750,CSA C22.2 NO.250.13-12;ENEC BS EN/EN61347-1 & BS EN/EN61				1347-2-13 independent,			
EMC EMISSION Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3,GB17743, EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120*66.5*22mm (L*W*H) PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver 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. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permane		WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120*66.5*22mm (L*W*H) PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver 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. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permane		ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH					
MTBF 397.61K hrs min. MIL-HDBK-217F (25°C) DIMENSION 120*66.5*22mm (L*W*H) PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver 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. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permane	EMC	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3,GB17743,GB17625.1					
DIMENSION 120*66.5*22mm (L*W*H) PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver 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. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanent.		EMC IMMUNITY	Compliance to BS EN/	EN61000-4-2,3,4,5,6,8,	11; BS EN/EN61547, lig	ght industry level(surge	immunity:Line-Line:1KV	
PACKING 0.14Kg;81pcs/12.5Kg/ 1.32CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 5. The driver 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. 6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permane	OTHERS	MTBF	397.61K hrs min. N	/IIL-HDBK-217F (25°C)				
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 Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 	NOTE							

■ DIMMING OPERATION



※ Dimming principle for PWM style output

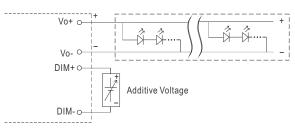
Dimming is achieved by varying the duty cycle of the output current.



Duty cycle(%) =
$$\frac{TON}{T}$$
 ×100%

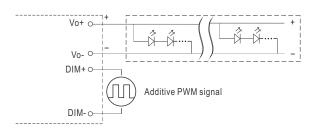
Output PWM frequency: 1KHz(±20%)

★ 2 in 1 dimming function

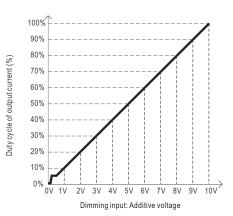


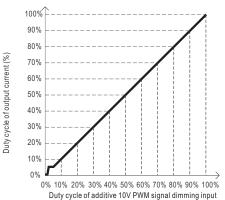
"DO NOT connect "DIM- to Vo-"

Applying additive 10V PWM signal (frequency range 300~3000Hz):



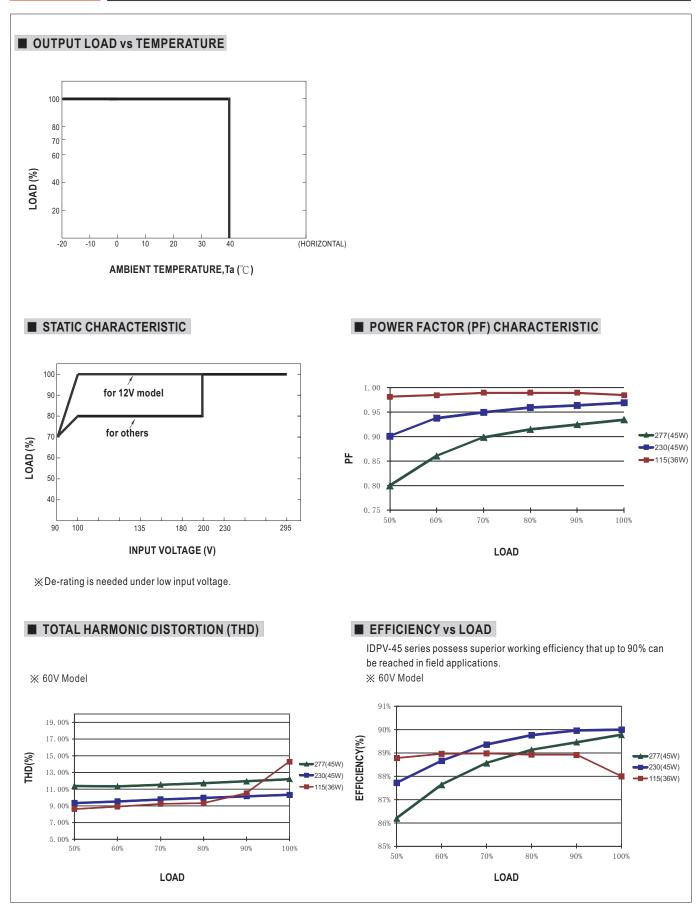
"DO NOT connect "DIM- to Vo-"





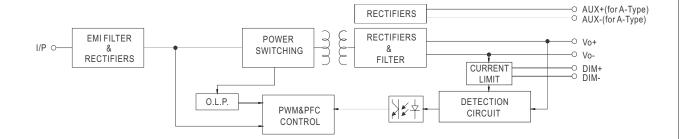
Note: 1. Min. duty cycle of output current is about 8% and the output current is not defined when 0%< Iout<8%.

2. The duty cycle of output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.



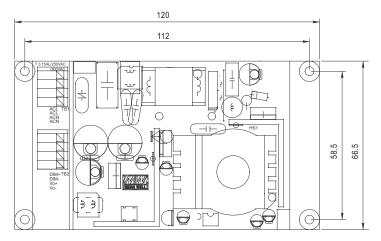


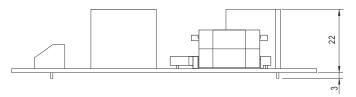
fosc: 70~150KHz



■ MECHANICAL SPECIFICATION

※ Blank-Type Unit:mm





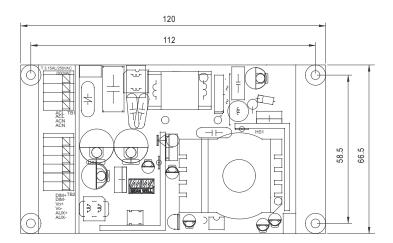
Terminal Pin No. Assignment(TB1)

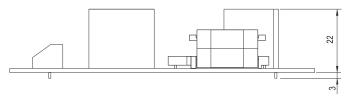
Pin No.	Assignment
1	ACL
2	ACL
3	ACN
4	ACN

Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	DIM+
2	DIM-
3	Vo+
4	Vo-







Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	ACL
2	ACL
3	ACN
4	ACN

Terminal Pin No. Assignment(TB2)

Pin No.	Assignment	Pin No.	Assignment
1	DIM+	4	Vo-
2	DIM-	5	AUX+
3	Vo+	6	AUX-

■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html