



■ Features

- Wide input range 100~305V AC(Class I)
- Full power output at 70~100% Constant power mode operation
- Metal case with IP67, suitable for outdoor application
- Class 2 power unit(except for L type)
- Surge protection with 6KV/4KV
- DALI-2 Dimming with minimum level 8%
- India (EESL) version with Input Over Voltage Protection can survive input voltage stress of 440Vac for 48 hours
- Protection functions: SCP/OTP
- Life time >50,000 hrs. and 5 years warranty

■ Applications

- Skyscraper lighting
- Street lighting
- Floodlight Lighting
- Stage lighting
- Fishing lighting
- Horticulture lighting
- Bay lighting
- Type HL for use in class I , Division 2

■ GTIN CODE

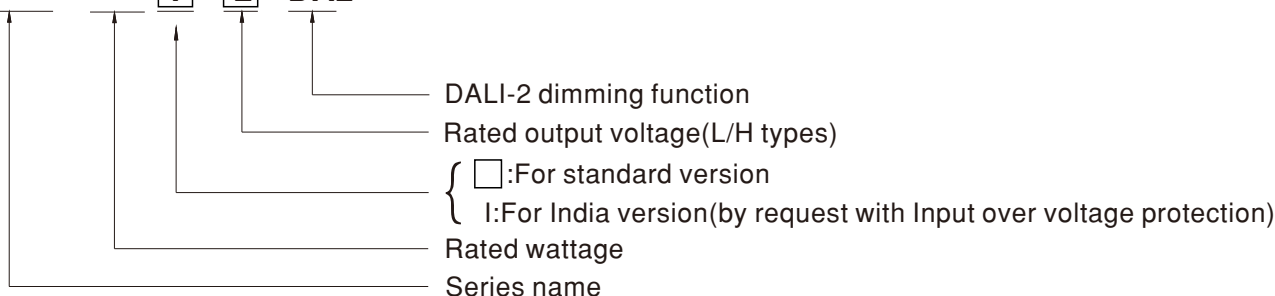
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

■ Description

XLG-75-DA2 series is a 75W LED AC/DC driver featuring the constant power mode with DALI-2 dimming function. XLG-75-DA2 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 2100mA. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -40°C~+90°C case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XLG-75-DA2 series comply with the latest version of IEC61347/GB19510.1 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both user and luminaire system during installation.

■ Model Encoding

XLG - 75 I - L - DA2



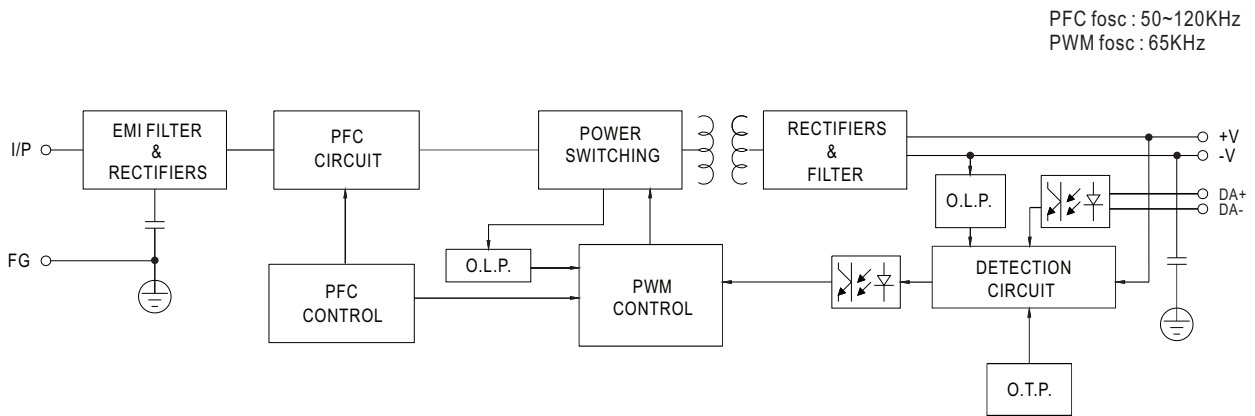
Type	Function	Note
DA2	DALI-2 control technology with Io adjustable via built-in potentiometer	In Stock

SPECIFICATION

MODEL		XLG-75□-L-DA2		XLG-75□-H-DA2		
OUTPUT	RATED CURRENT(Default)	700mA		1400mA		
	RATED POWER	74.9W		75.6W		
	CONSTANT CURRENT REGION	53 ~ 107V		27 ~ 56V		
	FULL POWER CURRENT RANGE	700~1050mA		1300~2100mA		
	OPEN CIRCUIT VOLTAGE (max.)	115V		60V		
	CURRENT ADJ. RANGE	(Via the built-in potentiometer) 350~1050mA		700~2100mA		
	CURRENT RIPPLE	5.0%(@ full load)				
	CURRENT TOLERANCE	± 5%				
	SET UP TIME	500ms/230VAC, 1200ms/115VAC				
INPUT	VOLTAGE RANGE	Note.4 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" and "DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF ≥ 0.97 / 115VAC, PF ≥ 0.95 / 230VAC, PF ≥ 0.92 / 277VAC at full load (Please refer to "Power Factor Characteristic" section)				
	TOTAL HARMONIC DISTORTION	THD< 10% (@ load ≥ 50% at 115VAC/230VAC ,@load ≥ 75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
	EFFICIENCY (Typ.)	90%		90%		
	AC CURRENT (Typ.)	1A / 115VAC 0.45A / 230VAC 0.38A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=360μs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units(circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dimming off)(For standard version)				
PROTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed				
	INPUT OVER VOLTAGE	Note.7 320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage,recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours				
	OVER TEMPERATURE	Stage 1: Derating to 75% loading; Stage 2: Derating to 50% loading. recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-40 ~ +90℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+90℃				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	± 0.03%/℃ (0 ~ 60℃)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
	SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 (EL) appendix J suitable for emergency installations(DC Input: 176-280Vdc) independent, BS EN/EN62384; IS 15885(Part2/Sec13)(for XLG-75I-DA2 only); GB19510.1,GB19510.14; EAC TP TC 004; IP67 approved			
DALI STANDARDS		Comply with IEC62386-101, 102, 207, 251, Device type 6(DT6)				
WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH				
EMC EMISSION		Parameter	Standard		Test Level/Note	
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743		-----	
		Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743		-----	
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1		Class C @load≥50%	
		Voltage Flicker	BS EN/EN61000-3-3		-----	
EMC IMMUNITY		BS EN/EN61547				
		Parameter	Standard		Test Level/Note	
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	BS EN/EN61000-4-3		Level 3	
		EFT/Burst	BS EN/EN61000-4-4		Level 3	
		Surge	BS EN/EN61000-4-5		4KV/Line-Line 6KV/Line-Earth	
	Conducted	BS EN/EN61000-4-6		Level 3		
	Magnetic Field	BS EN/EN61000-4-8		Level 4		
	Voltage Dips and Interruptions	BS EN/EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	2489.3Khrs min. Telcordia SR-332 (Bellcore) ; 245.7Khrs min.		MIL-HDBK-217F (25℃)		
	DIMENSION	140*63*32mm (L*W*H)				
	PACKING	0.58Kg;24pcs/15Kg/0.85CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 5. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 6. Based on IEC 62386-101/102 DALI power on timing and interruption regulations,the set up time needs to test with a DALI controller which can support for DALI power on function,otherwise the set up time will be longer than 500ms. 7. Input over voltage only for XLG-75 I series,and I series without UL/CSA certificate. 8. 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. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 9. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 11. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 75℃ or less. 12. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information. 13. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 14. RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations; 15. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains. 16. This series need to consider build in using to comply with Type HL application. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					

File Name:XL G-75-DA2-SPEC_2024-10-11

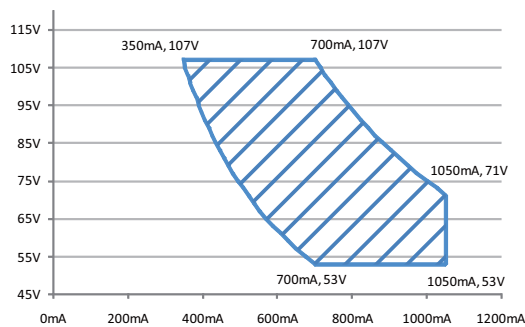
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

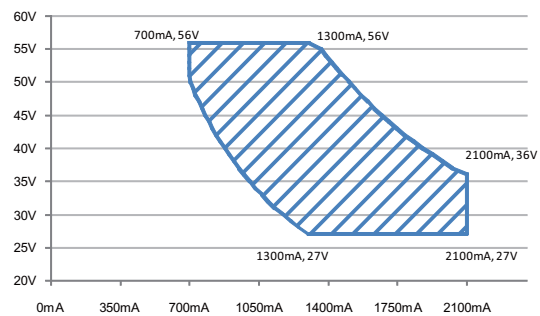
※ I-V Operating Area

◎ XLG-75-L-DA2



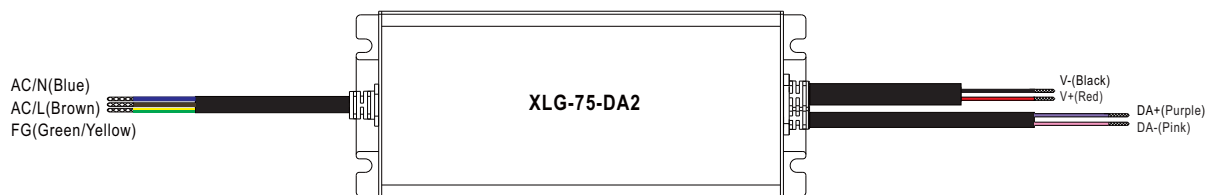
Recommend Performance Region

◎ XLG-75-H-DA2



Recommend Performance Region

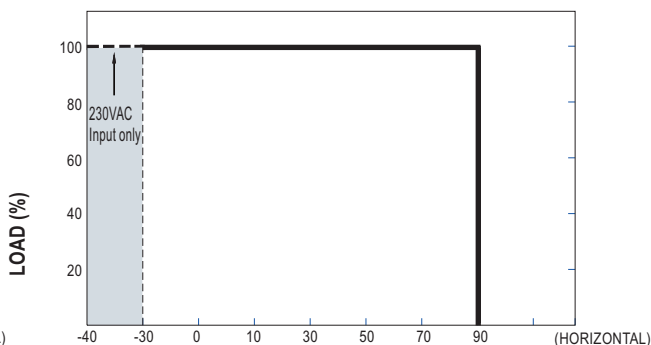
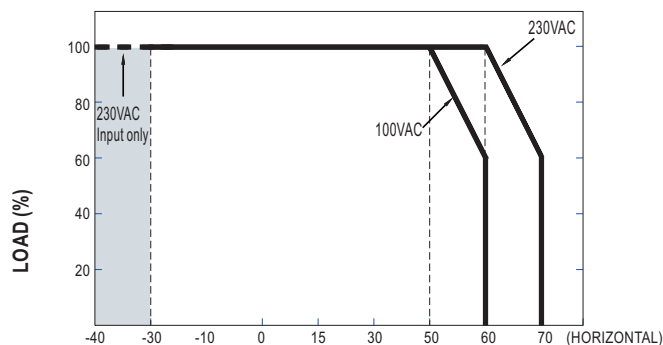
DIMMING OPERATION



※ DALI Interface

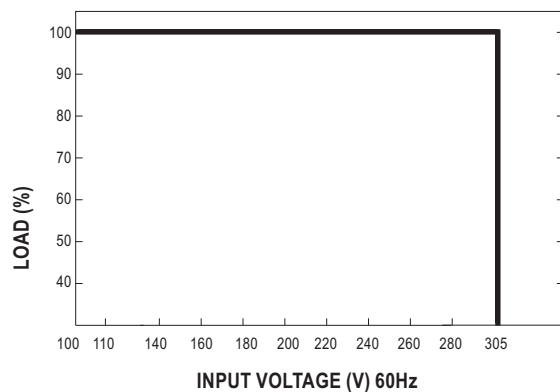
- Apply DALI signal between DA+ and DA-
- DALI protocol comprises 16 groups and 64 address
- First step is fixed at 8% of output

OUTPUT LOAD vs TEMPERATURE



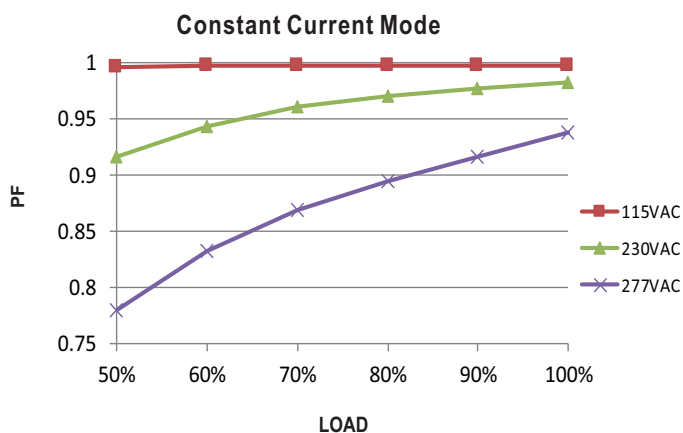
- Note: 1. If XLG-75-DA2 operates in Constant Current mode with the rated current the maximum workable T_a is 60°C (Typ. 230VAC) or 50°C (Typ. 100VAC)
2. Below 120VAC@ -30°C may has restart situation within 5s after power-on

STATIC CHARACTERISTIC



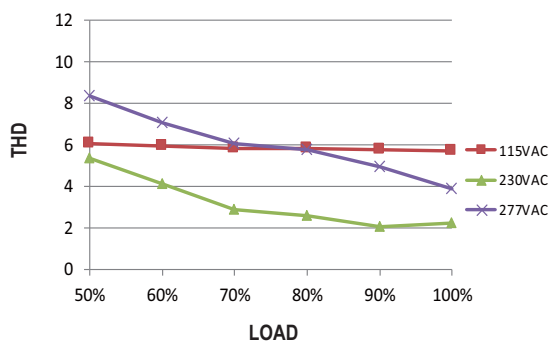
POWER FACTOR (PF) CHARACTERISTIC

※ T_{case} at 75°C



■ TOTAL HARMONIC DISTORTION (THD)

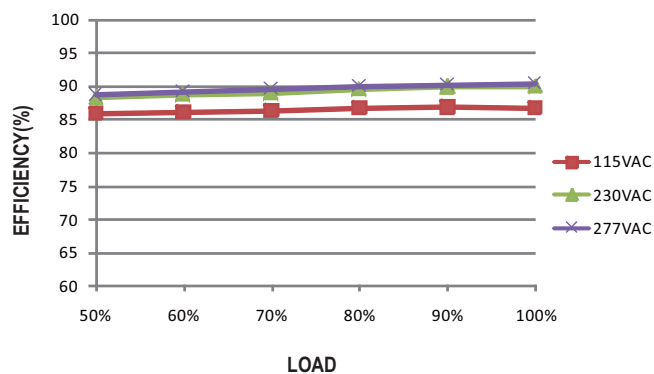
※ XLG-75-L-DA2 Model, Tcase at 75°C



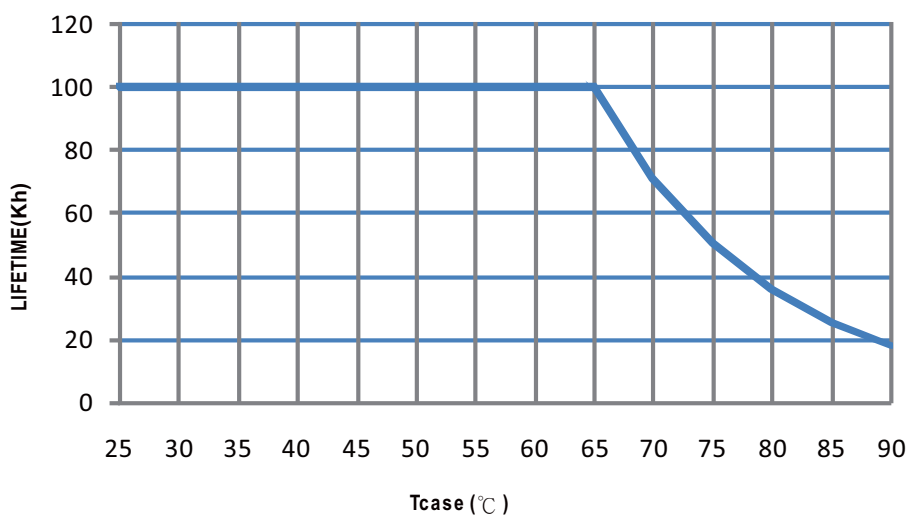
■ EFFICIENCY vs LOAD

XLG-75-DA2 series possess superior working efficiency that up to 90% can be reached in field applications.

※ XLG-75-L-DA2 Model, Tcase at 75°C



■ LIFE TIME



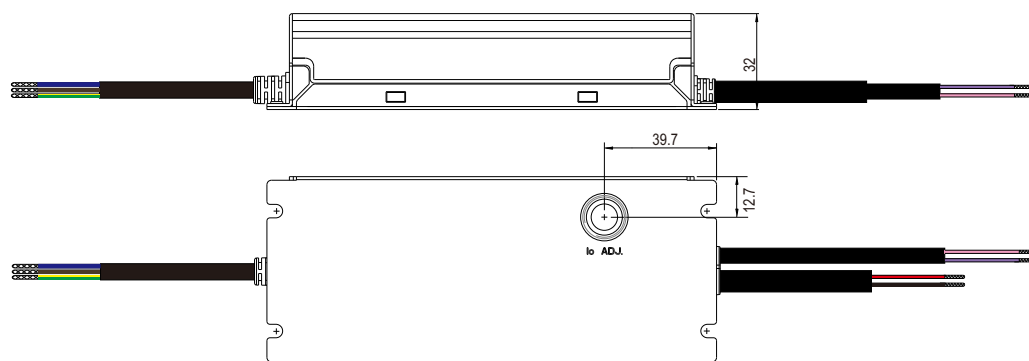
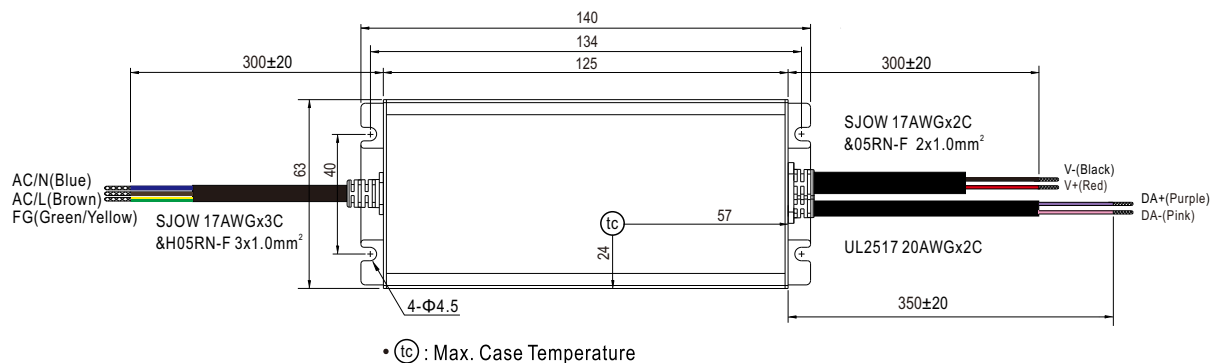
MECHANICAL SPECIFICATION

Case No.: 275A

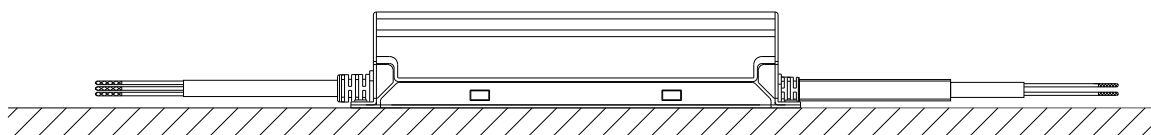
Unit:mm

Tolerance:±1

※ DA2-Type



Recommend Mounting Direction



INSTALLATION MANUAL

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