



- * Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- · Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.10)















HLG-240H-12 A

Blank: IP67 rated. Cable for I/O connection.

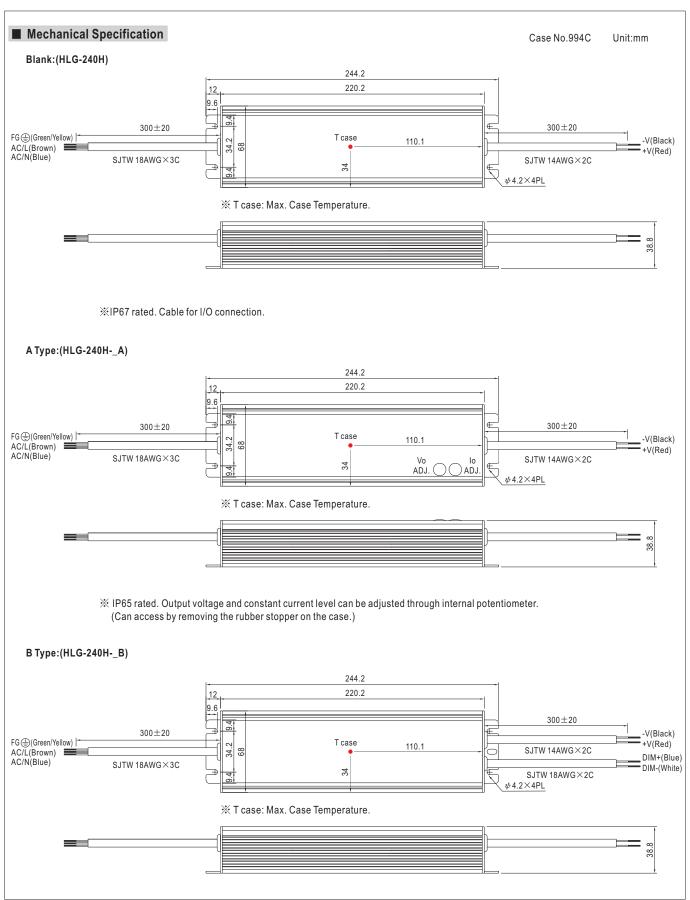
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.
- D (option, safety pending): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

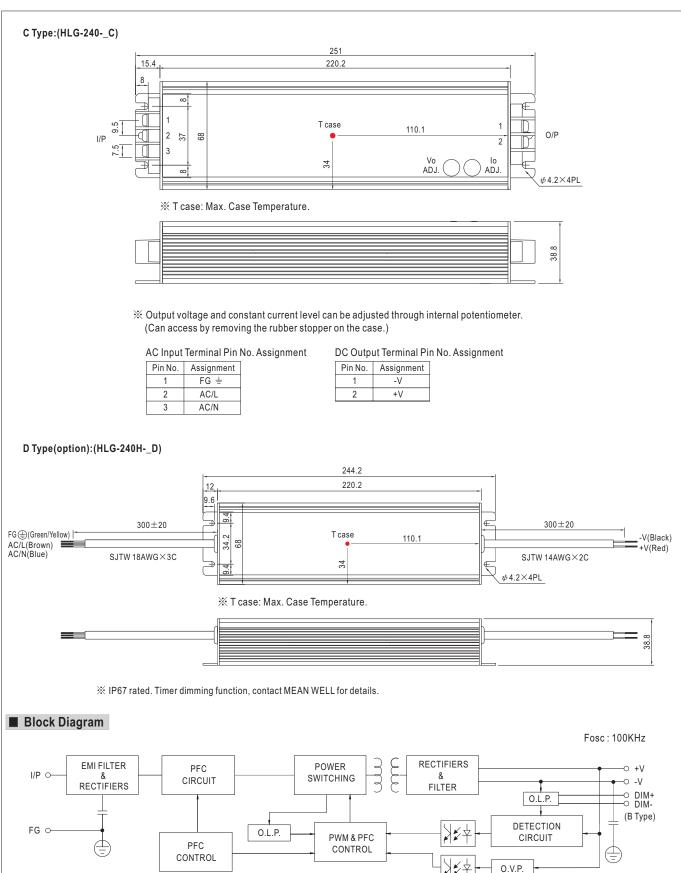
10. Refer to warranty statement.

RATED CURRENT 16A	MODEL		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54			
RATEO CURRENT 19A 15A 15A 12A 10A 8A 6.7 5.72A 5.72A 6.A 4.40 4.25A		DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
RATED POWER 192W 255W 240W 240W 2410W 2412W 240 24W 240W 240W 240 24W 240W 240 24W 240W 24		CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V			
RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p 150mVp-p 250mVp-p 250mVp-p 250mVp-p 250mVp-p 350m		RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A			
VOLTAGE ADJ. RANGE Note.s 11.2 - 12.8V 4 - 16V 16.6 - 21.4V 22.4 - 25.6V 28 - 32V 33.5 - 38.5V 39 - 45V 44.8 - 51.2V 50 - 5		RATED POWER	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W			
VOLTAGE ADJ. RANGE Note.s 11.2 - 12.8V 4 - 16V 16.6 - 21.4V 22.4 - 25.6V 28 - 32V 33.5 - 38.5V 39 - 45V 44.8 - 51.2V 50 - 5		RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p			
OUTPUT CURRENT ADJ. RANGE Can be adjusted by internal potentiometer A type and C type only CURRENT ADJ. RANGE Control 225% 2.5% 2.0% 2.12A 5.10A 4.8A 3.3-6.7A 2.86-5.72A 2.5-5A 2.23-10A 2.86 2.0% 2.		VOLTAGE ADJ. RANGE Note.6	11.2 ~ 12.8V	14 ~ 16V	18.6 ~ 21.4V	22.4 ~ 25.6V	28 ~ 32V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V			
SURKENT ALD, KANCE 8-16A 7,5-15A 6-12A 5-10A 4-8A 3,3-6,7A 2,86-5,72A 2,5-5A 2,23- VOLTAGE TOLERANCE Notes.] ±2,5% ±2,0% ±1,0% ±1,0% ±1,0% ±1,0% ±1,0% ±1,0% ±1,0% ±1,0% ±1,0% ±0,5% ±	OUTPUT													
LINE REGULATION		CURRENT ADJ. RANGE					-	3.3 ~ 6.7A	2.86 ~ 5.72A	2.5 ~ 5A	2.23 ~ 4.45A			
LOAD REGULATION Note.8 ±2.0% ±1.5% ±1.0% ±0.5%		VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%			±1.0%			
SETUP, RISE TIME		LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
HOLD UP TIME (Typ.) 15ms at full load 230VAC /115VAC		LOAD REGULATION Note.8	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
NOTE		SETUP, RISE TIME Note.9	2500ms, 80ms	s at full load	230VAC /115V	AC					l			
NOTE		HOLD UP TIME (Typ.)	15ms at full lo	ad 230VAC/	/115VAC									
FREQUENCY RANGE			90 ~ 305VAC											
INPUT TOTAL HARMONIC DISTORTION PF>0.98/115VAC, PF>0.95/230VAC at full load (Please refer to "Power Factor Characteristic" curve) TOTAL HARMONIC DISTORTION THD> 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input		FREQUENCY RANGE	47 ~ 63Hz											
TOTAL HARMONIC DISTORTION			PF>0.98/115\	AC. PF>0.95/2	230VAC at full I	oad (Please re	fer to "Power F	actor Characte	eristic" curve)					
PROTECTION FFICIENCY (Typ.) 90% 90% 91.5% 92.5% 92.5% 92.5% 92.5% 93.89 93.59		(• , ,				•				AC input				
AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER CURRENT Note.4 Protection type : Constant current limiting, recovers automatically after fault condition is removed Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed 13.5 ~ 18V 17.5 ~ 21.5V 23.5 ~ 27.5V 27 ~ 34V 33 ~ 39V 43 ~ 49V 48 ~ 54V 55 ~ 63V 60 ~ IV	INPUT			-							93.5%			
INRUSH CURRENT (Typ.) COLD START 75A(twidth=570)/s measured at 50% peak) at 230VAC							1							
LEAKAGE CURRENT <0.75mA / 27TVAC 95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed 13.5 ~ 18V 17.5 ~ 21.5V 23.5 ~ 27.5V 27 ~ 34V 33 ~ 39V 43 ~ 49V 48 ~ 54V 55 ~ 63V 60 ~ 10							30VAC							
OVER CURRENT Note.4 95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed 13.5 ~ 18V 17.5 ~ 21.5V 23.5 ~ 27.5V 27 ~ 34V 33 ~ 39V 43 ~ 49V 48 ~ 54V 55 ~ 63V 60 ~ 10 ~ 10 Protection type : Shut down and latch off o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. 40 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 95% RH non-condensing 20 ~ 95% RH non-condensing STORAGE TEMP, HUMIDITY 40 ~ +80°C, 10 ~ 95% RH 10 ~ 0.30%/°C (0 ~ 50°C) Ul1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independ (except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC I/P-FG:0.5KVAC I/P-G:0.5KVAC I/														
PROTECTION SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed 13.5 ~ 18V 17.5 ~ 21.5V 23.5 ~ 27.5V 27 ~ 34V 33 ~ 39V 43 ~ 49V 48 ~ 54V 55 ~ 63V 60 ~ 10														
SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed 13.5 - 18V 17.5 - 21.5V 23.5 - 27.5V 27 - 34V 33 - 39V 43 - 49V 48 - 54V 55 - 63V 60 - 10 Protection type : Shut down o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. -40 - +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 - 95% RH non-condensing STORAGE TEMP., HUMIDITY -40 - +80°C, 10 - 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 - 50°C) VIBRATION 10 - 500Hz, 56 12min./1cycle, period for 72min. each along X, Y, Z axes Ut1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independ (except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved WITHSTAND VOLTAGE I/P-O/P. I/P-FG, O/P-FG:100M Ohms / 500VC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥50% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A MTBF 207.9K hrs min. MIL+IDBK-217F (25°C) DIMENSION 244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H-C) ACKING 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 0.1 uf & 47uf parallel capacitor.		OVER CURRENT Note.4												
OVER VOLTAGE		SHOPT CIPCUIT	71											
OVER VOLTAGE Protection type : Shut down and latch off o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independ (except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-FG:2KVAC I/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥50% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A MTBF 207.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 244.2°68°38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251°68*38.8mm (L*W*H)(HLG-240H-C) PACKING 1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.5Kg/1.16CUFT(HLG-240-C) 2. Ripple & noise are measured at 20VMHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor.	PROTECTION	ROTECTION						43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V			
OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. 40 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independ (except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved WITHSTAND VOLTAGE I/P-O/P; J75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/70% RH EMC EMISSION Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥50% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A WTBF 207.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H-C) PACKING 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 0.1 uf & 47uf parallel capacitor.		OVER VOLTAGE												
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 Please refer to "DRIVING METHODS OF LED MODULE". Derating may be needed under low input voltages. Please check the static characteristics for more details. A type and C type only. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 	NOTE													

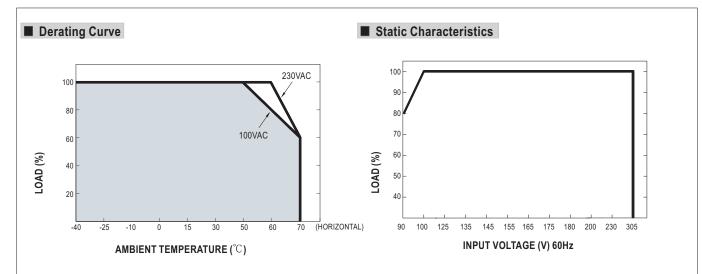




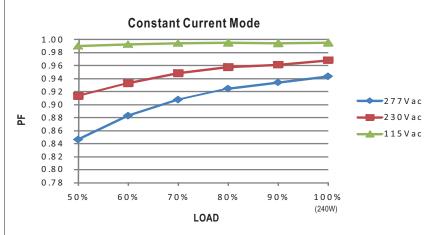






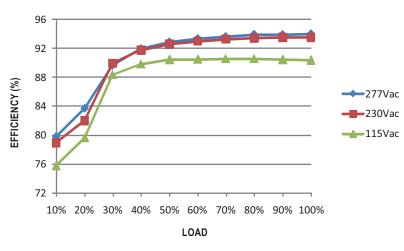


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

 $HLG-240H\ series\ possess\ superior\ working\ efficiency\ that\ up\ to\ 93.5\%\ can\ be\ reached\ in\ field\ applications.$



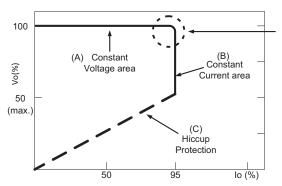


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



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.

Typical LED power supply I-V curve

■ DIMMING OPERATION (for B-type only)



- Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 1 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.
- * Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	10K Ω	20K Ω	30 K Ω	40K Ω	50K Ω	$60 \mathrm{K}\Omega$	70K Ω	80KΩ	90K Ω	100K Ω	OPEN
value	Multiple drivers	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω /N	50K Ω/N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω/N	
Percentag	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

1 ~ 10V dimming function for output current adjustment (Typical)

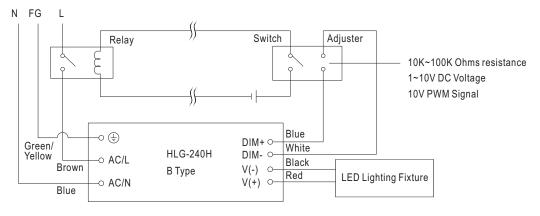
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

¾ 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

- **Using the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.
- ※Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF:



Using a switch and relay can turn ON/OFF the lighting fixture.

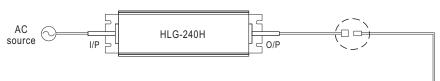
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

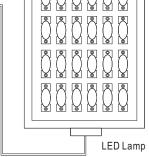
O Waterproof connector

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-240H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$



Size	Pin Configuration (Female						
M12	000	000					
IVITZ	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Size	Pin Configuration (Female)				
M15	00				
IVITO	2-PIN				
	12A/PIN				
Order No.	M15-02				
Suitable Current	12A max.				



O Cable Joiner

