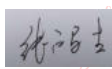


 GUANGDONG DONE POWER TECHNOLOGY CO.,LTD Service hotline: 400 0760 585 Website: www.donepower.com.cn	Application	DONE WATERPROOF LED DRIVER		
	Product Line	DL-200W-S/A-MAP	REV.	1.5

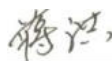
Guangdong Done Power Technology Co.,Ltd.

SPECIFICATION FOR APPROVAL

CUSTOMER			
MODEL NO.	DL-200W-S/A-MAP		
VERSION	V1.5		
CUSTOMER			
TEST	CHECK	APPROVE	
CUSTOMER REMARKS			
Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature.			
MANUFACTURE			
EDIT	CHECK	APPROVE	
吕晓凤	 2022.03.12 14:23:27 +08'00'	 数字签名者: 张兴生 DN: cn=张兴生, o=done, email=978425630@qq.com, c=cc, cn=张兴生 日期: 2022.03.12 15:58:29 +08'00'	
Guangdong Done Power Technology Co.,Ltd. No. 3-1&3-2, Kanglong 3rd Road, XinMao Industry Zone, Henglan Town, Zhongshan City, Guangdong Province, P.R. China Post code:528478 TEL:0760-89838399 89838379 FAX:0760-89831157 89838396			

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■ VERSION

DATE	CAUSES OF CHANGE	REV.	CHECKED BY
2019.11.15	Initial version.	V1.0	
2020.02.24	Adjusted the position of the picture.	V1.1	
2020.04.14	Add voltage range on page 4:90-305Vac.	V1.2	
2020.06.29	Page 3 Change product picture and add ENEC logo,Add a warning on page 13.Common mode surge suppression level upgraded from 10KV to 15KV.	V1.3	
2020.12.2	Page 3 and Page 4 change the total harmonic distortion rate from less than 7% to less than 10%.Change the power factor from 0.97 to 0.95.	V1.4	
2022.3.11	1.modify dimension drawing: input and output skinning length changed from 5mm to 10mm 2. update the company LOGO and company name.	V1.5	 2022.03.12 11:27:18 +08'00' ZHANGTINGW EI  2022.03.12 11:46:35 +08'00'

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FEATURES

- ◇ Class I structure
- ◇ Input Voltage:100-277V ~ 50/60Hz
- ◇ Efficiency 91%
- ◇ Constant power drive , Constant current output control mode
- ◇ Metal clad construction , level of protection : IP67
- ◇ Lightning protection level : difference module 6kV ,
common mode 15kV
- ◇ Long life design , 5 years warranty
- ◇ Output current can be adjusted Externally
- ◇ The dimming function : Three in one dimming
(Only S series)



TYPICAL APPLICATIONS

Road lighting、Industrial lighting、The venue lighting
floodlighting、landscape lighting



MODEL LIST

Model	AC Input	Output power	Output voltage	Output current	Efficiency (Typ.)	THD	PF
DL-200W-V38S-MAP DL-200W-V38A-MAP	100-277V 50/60Hz	200W	20-38Vdc	6.0A	90%	<10%	>0.95
DL-200W-V58S-MAP DL-200W-V58A-MAP	100-277V 50/60Hz	200W	32-58Vdc	4.2A	91%	<10%	>0.95

Remark :

1. Default tested at 230Vac,full load with 30 minutes,Ta:25°C.
2. When the input voltage is lower than 180Vac±5%, the output power gradually decreases ;
200-277Vac , P rated 200W ; Please refer to the input voltage VS output power curve for details.

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	Product Line	DL-200W-S/A-MAP	REV.	1.5

■ SPECIFICATION

◇ INPUT

Rated voltage	100 - 277Vac
voltage range	90 - 305Vac
Frequency	50/60Hz
Power factor(PF)	PF>0.95 @230Vac full load
Total harmonic distortion(THD)	THD<10% @230Vac full load
Input current	I _{in} <1.4A @180Vac full load
Inrush current (Typ.)	Cold start 95A @230Vac

◇ OUTPUT

Model	DL-200W-V38S-MAP DL-200W-V38A-MAP	DL-200W-V58S-MAP DL-200W-V58A-MAP
Rated current	5.3A	3.45A
Output current range	3.7-6.7A	2.4-4.8A
Output voltage range	20-38Vdc	32-58Vdc
Rated output power(100-180Vac)	100W±30%	100W±30%
Rated output power(200-277Vac)	200W	200W
No load voltage	55Vdc Max	80Vdc Max
Efficiency(Typ.)	90%@230Vac full load	91%@230Vac full load
Accuracy off output current	±5%	
Line regulation	±5%	
Load regulation	±5%	
Setup time	<500ms @230Vac full load	

Remarks : The range of output current is limited by in-out voltage.For details, please refer to the I-V working area.

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◇ Others

0-10V Dimming (Optional)	Safety Dimming Voltage Range	0V - 12V
	Dim Range	0 - 100%
	Rated Dim Range	0V - 10V
PWM Dimming (Optional)	PWM High	9.5V - 10.5V
	PWM Low	0V - 0.3V
	PWM Frequency	300Hz - 2000Hz
	PWM Duty	0 - 100%
Resistor Dimming	Resistance	0Kohm - 100Kohm
	Dim Range	0 - 100%

Remarks:

1. Output current of dimming port: 100uA (typical value);
2. The maximum withstand voltage of the dimming port is 12V. If the external power supply voltage exceeds 12V or the signal line is reversely connected, the power supply will be damaged.

◇ Protection

Low Voltage protection	When the input voltage is less than 180Vac±5%, the output power gradually decreases.
Over Load protection	Protection mode: hiccup restart mode, automatic recovery after removal of abnormal load conditions.
Short Circuit Protection	Doze mode, can automatically recover after abnormal conditions are removed.
Over temperature Protection	When the Tcase is over 90 °C , the output power gradually decreases.
Over Voltage protection	Protection mode: hiccuping or clamping in output maximum voltage ,Production undamaged,When troubleshooting,Normal operation of power supply.

Remarks:

1. All specifications are tested at 230Vac (50Hz) , rated load, and Ta:25°C.
2. Including setting error, linear adjustment rate and load adjustment rate.

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■ ENVIRONMENT

Working temperature	-40 ~ +60°C (Refer to "Derating Curve")
Working humidity	20 ~ 95% RH, non-condensing
Storage temperature/humidity	-40~+80°C, 10 ~ 95% RH
Resistant to vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
MTBF	210K hrs min. MIL-HDBK-217F (Ta=25°C)

■ SAFETY & EMC

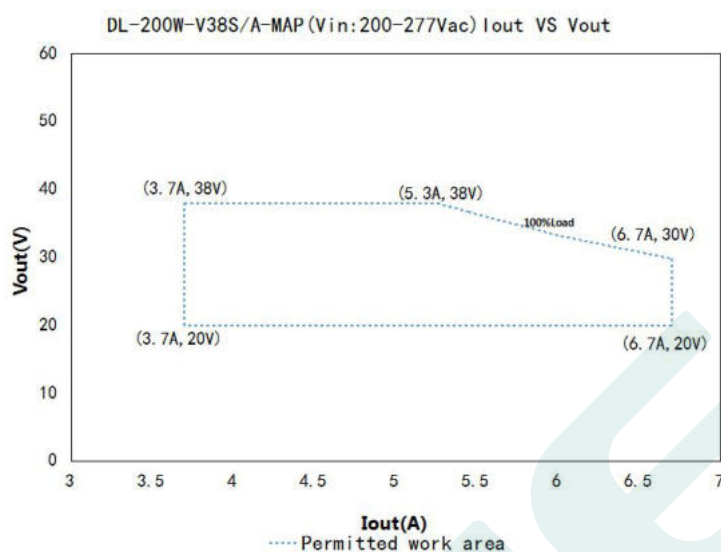
Safety	GB19510.1、GB19510.14、EN61347-1、EN61347-2-13、IEC61347-1、IEC61347-2-13、AS/NZS61347.1、AS61347.2.13
EMC	EN 55015、EN 61547、EN 61000-3-2、GB/T 17743、GB17625.1、EN 61000-3-3
Surge level	difference mode L-N ± 6 KV (2 ohm), common mode L , N-PE ± 15 KV (12 ohm) Refer to IEC61000-4-5 2014
High-pot test	I/P-O/P:3.75KVAC I/P-PE :1.5KVAC O/P-PE : 0.5KVAC I/P-DIM:1.5KVAC
Insulation resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
Leakage current	<0.7mA

Remarks:

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.

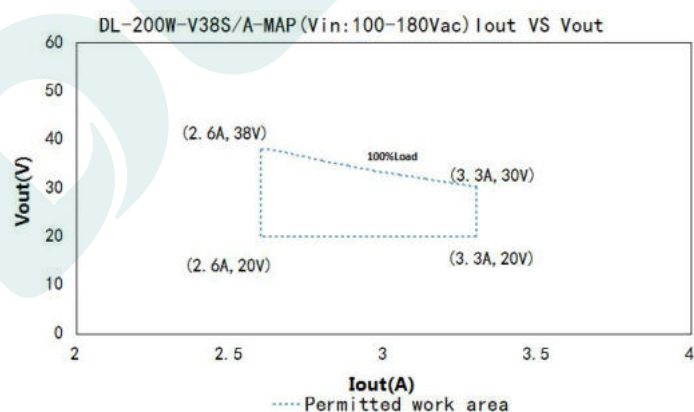
DONE GUANGDONG DONE POWER TECHNOLOGY CO.,LTD Service hotline: 400 0760 585 Website: www.donepower.com.cn	Application	DONE WATERPROOF LED DRIVER		
	Product Line	DL-200W-S/A-MAP	REV.	1.5

■ I-V Working Area



DL-200W-V38S/A-MAP(200-277Vac , Rated output current and output power corresponding to different load voltages)

Load working Voltage	20V	22V	24V	27V	30V	32V	34V	36V	38V
Io_MAX	6.67A	6.67A	6.67A	6.67A	6.67A	6.25	5.88	5.56	5.26
Po_MAX	133.4W	146.7W	160.1W	180.1W	200W	200W	200W	200W	200W

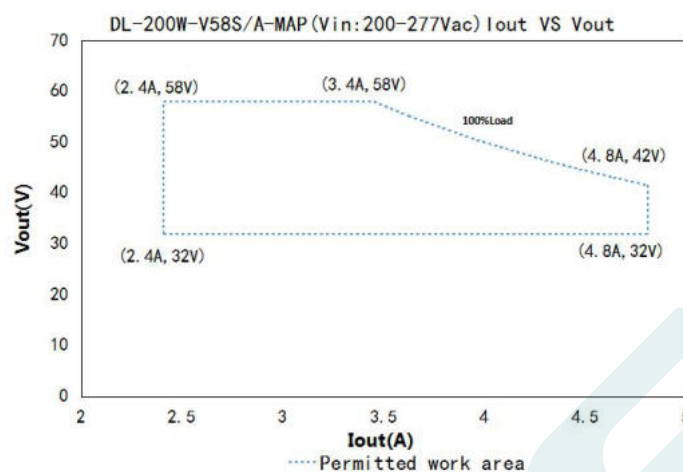


DL-200W-V38S/A-MAP(100-180Vac , Rated output current and output power corresponding to different load voltages)

Load working Voltage	20V	22V	24V	27V	30V	32V	34V	36V	38V
Io_MAX	3.34A	3.34A	3.34A	3.34A	3.34A	3.13A	2.94A	2.78A	2.63A
Po_MAX	66.8W	73.5W	80.2W	90.2W	100W	100W	100W	100W	100W

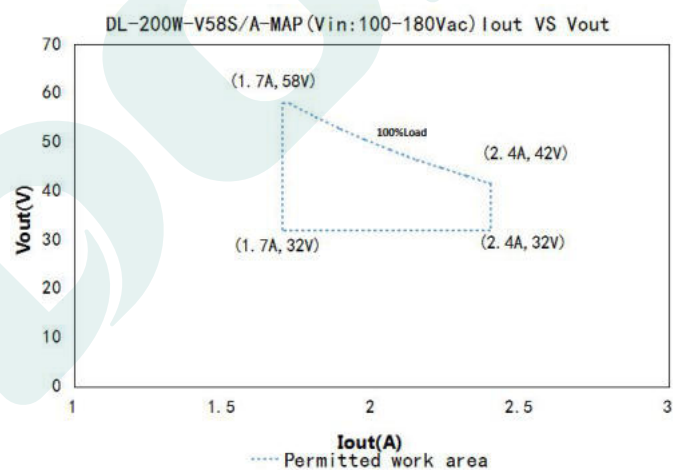
DONE GUANGDONG DONE POWER TECHNOLOGY CO.,LTD Service hotline: 400 0760 585 Website: www.donepower.com.cn	Application	DONE WATERPROOF LED DRIVER		
	Product Line	DL-200W-S/A-MAP	REV.	1.5

■ I-V Working Area



DL-200W-V58S/A-MAP(200-277Vac , Rated output current and output power corresponding to different load voltages)

Load working Voltage	32V	35V	38V	42V	45V	48V	51V	54V	58V
Io_MAX	4.8A	4.8A	4.8A	4.8A	4.44A	4.17A	3.92A	3.70A	3.44A
Po_MAX	153.6W	168W	182.4W	200W	200W	200W	200W	200W	200W

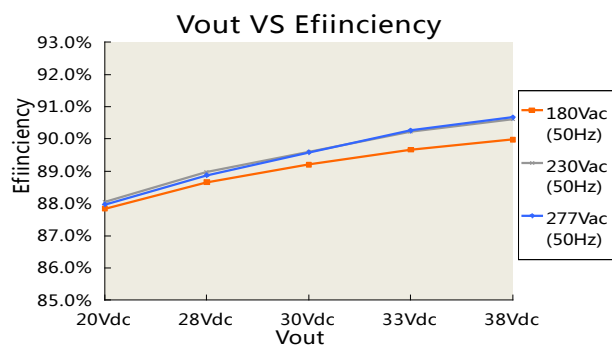


DL-200W-V58S/A-MAP(100-180Vac , Rated output current and output power corresponding to different load voltages)

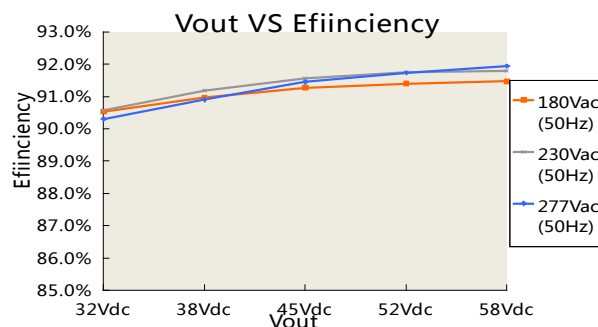
Load working Voltage	32V	35V	38V	42V	45V	48V	51V	54V	58V
Io_MAX	2.4A	2.4A	2.4A	2.4A	2.2A	2.1A	2.0A	1.9A	1.7A
Po_MAX	76.8W	84W	91.2W	100W	100W	100W	100W	100W	100W

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	Product Line	DL-200W-S/A-MAP	REV.	1.5

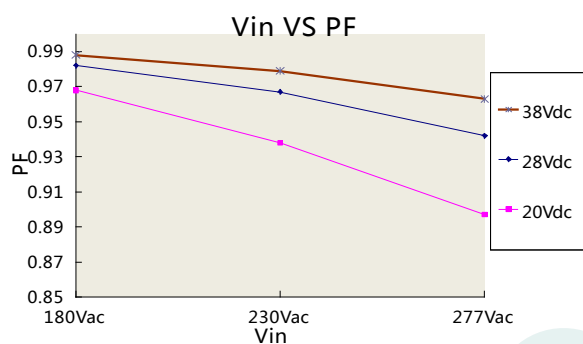
■ Vout VS Efficiency (DL-200W-V38S-MAP)



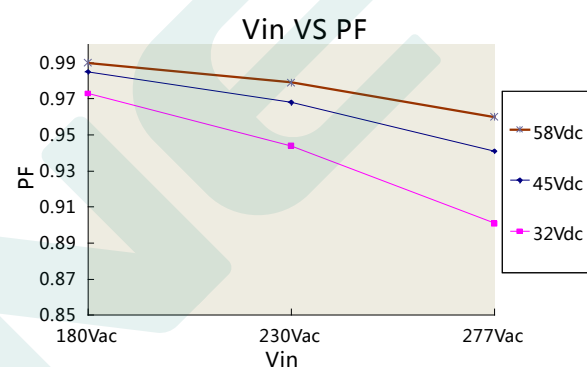
■ Vout VS Efficiency (DL-200W-V58S-MAP)



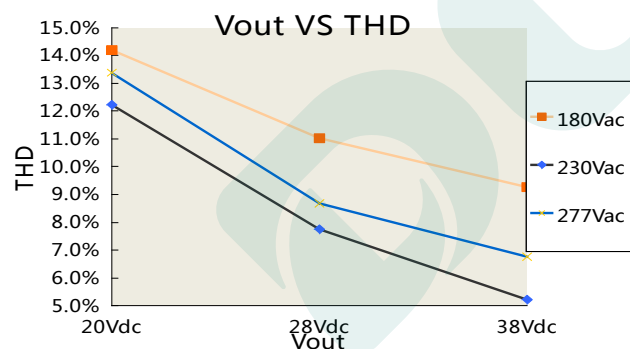
■ Vin VS PF (DL-200W-V38S-MAP)



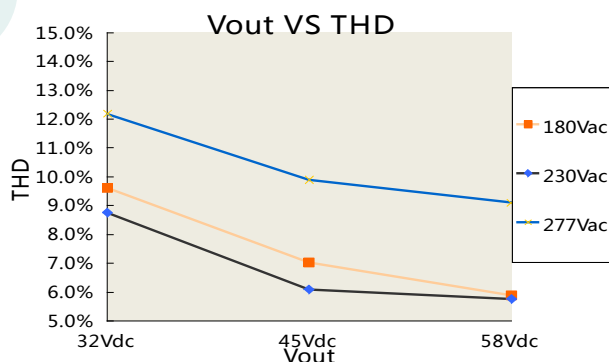
■ Vin VS PF (DL-200W-V58S-MAP)



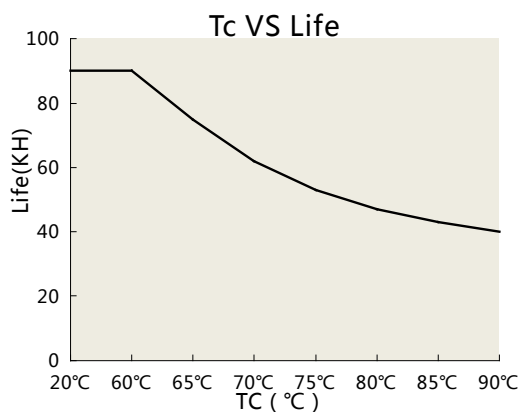
■ Vout VS THD (DL-200W-V38S-MAP)



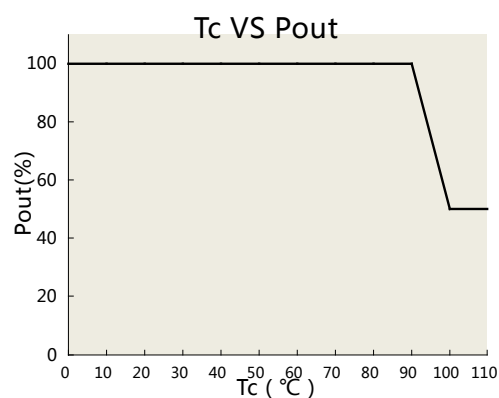
■ Vout VS THD (DL-200W-V58S-MAP)



■ Tc VS Life (DL-200W-S/A-MAP)

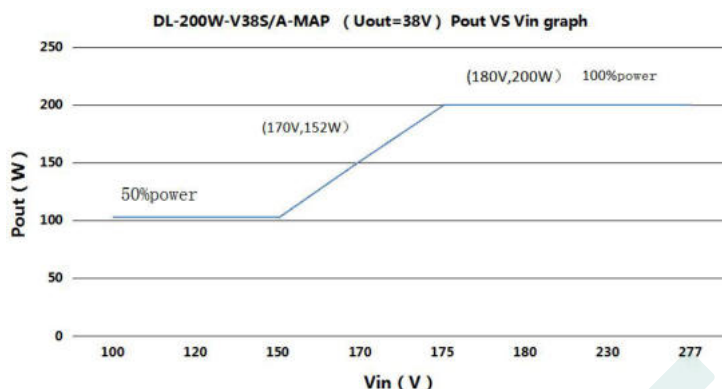


■ Tc VS Pout



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	Product Line	DL-200W-S/A-MAP	REV.	1.5

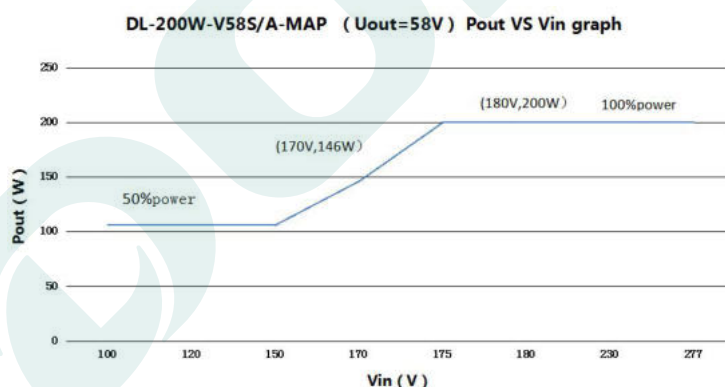
■ Pout VS Vin



DL-200W-V38S/A-MAP(38Vdc,Rated output current and output power corresponding to different Input voltages)

Input Voltage	100Vac	120Vac	150Vac	170Vac	175Vac	180Vac	230Vac	277Vac
Io	2.7A	2.7A	2.6A	4A	5.2A	5.2A	5.2A	5.2A
Po	103W	103W	103W	152W	200W	200W	200W	200W

■ Pout VS Vin



DL-200W-V58S/A-MAP(58Vdc,Rated output current and output power corresponding to different Input voltages)

Input Voltage	100Vac	120Vac	150Vac	170Vac	175Vac	180Vac	230Vac	277Vac
Io	1.8A	1.8A	1.8A	2.5A	3.4A	3.4A	3.4A	3.4A
Po	106W	106W	106W	146W	200W	200W	200W	200W

Remarks:

When the input voltage is lower than 180Vac±5Vac, the output power gradually decreases;

When the input voltage is 100V, the output power range is 100W ± 30%.

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■ DIMMING OPERATION

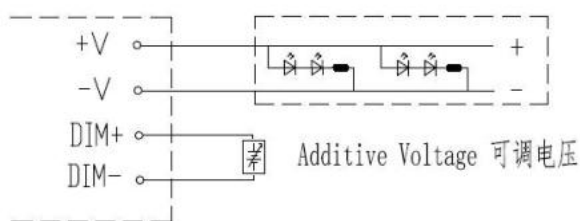
※ 3 in 1 dimming (For S Type)

1. Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.

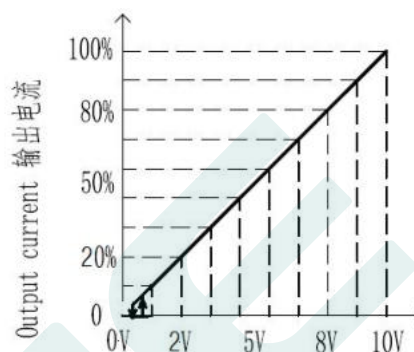
Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.

Dimming source current from power supply: 100μA (typ.)

© Applying additive 0-10Vdc:

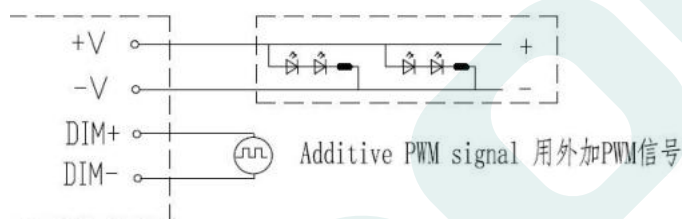


DO NOT connect "DIM- to -V" 请勿将DIM- 与-V相连

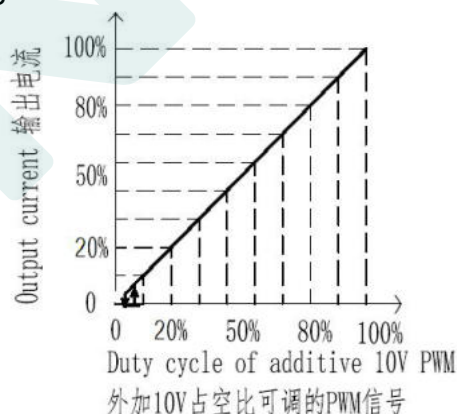


Dimming input: Additive voltage 调光输入: 外加电压

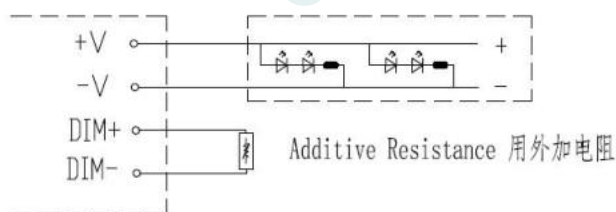
© Applying additive 10V PWM signal (Frequency range: 300Hz-2K Hz) :



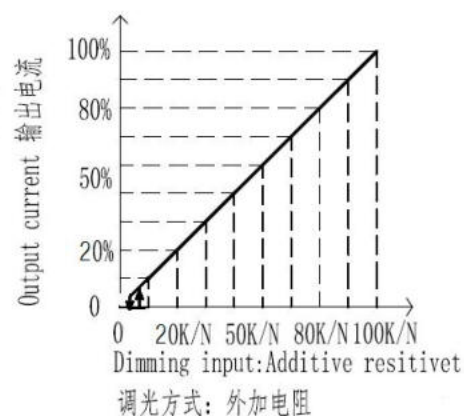
DO NOT connect "DIM- to -V" 请勿将DIM- 与-V相连



© Applying additive 0-100K resistance:



DO NOT connect "DIM- to -V" 请勿将DIM- 与-V相连



Note : N is the number of synchronous dimming operation drivers; Example: If the number of synchronous dimming operation drivers is 1 and the output current is 20%, then the external resistance is 20K/1=20K; The number of synchronous dimming operators is 2, the output current is 20%, and the external resistance is 20K/2=10K, and so on.

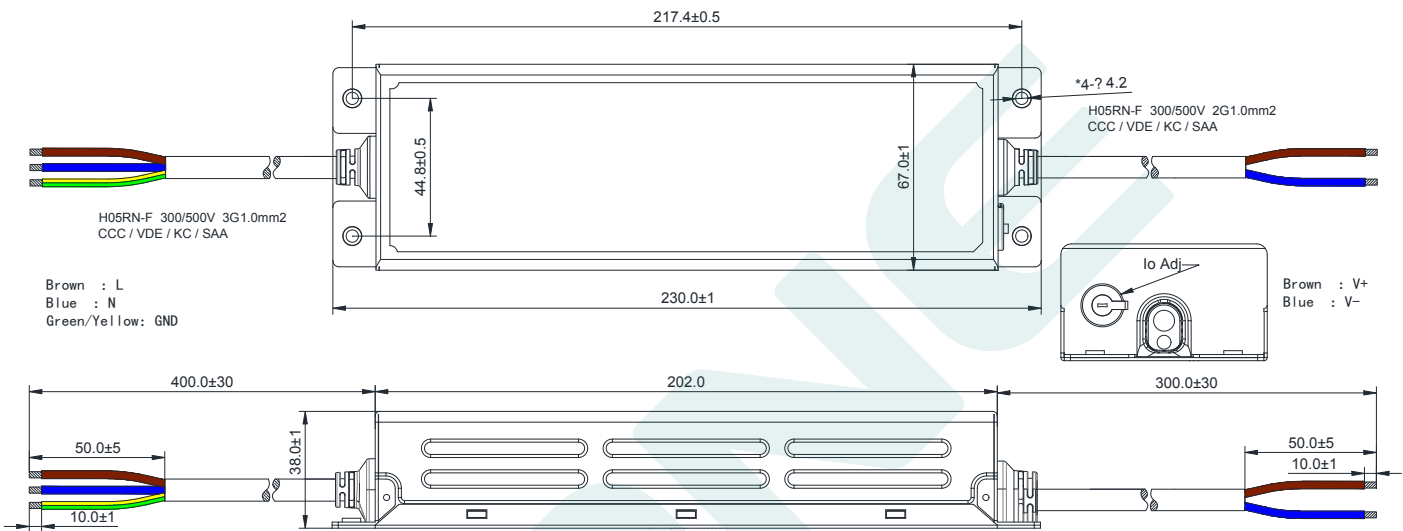
DONE GUANGDONG DONE POWER TECHNOLOGY CO.,LTD Service hotline: 400 0760 585 Website: www.donepower.com.cn	Application	DONE WATERPROOF LED DRIVER		
	Product Line	DL-200W-S/A-MAP	REV.	1.5

MACHINE SIZE MAP:

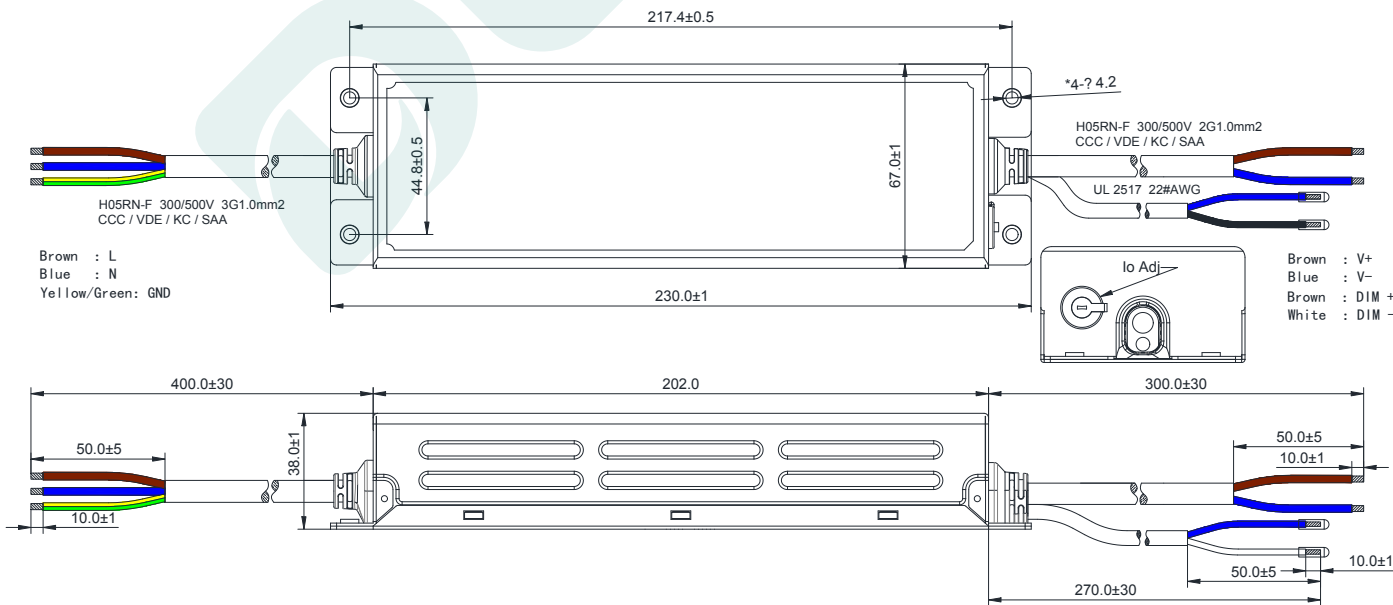
Sise (mm)	L230mm*W67mm*H38mm
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Case model : B200-008 unit:mm

DL-200W-V38A/58A-MAP



DL-200W-V38S/58S-MAP



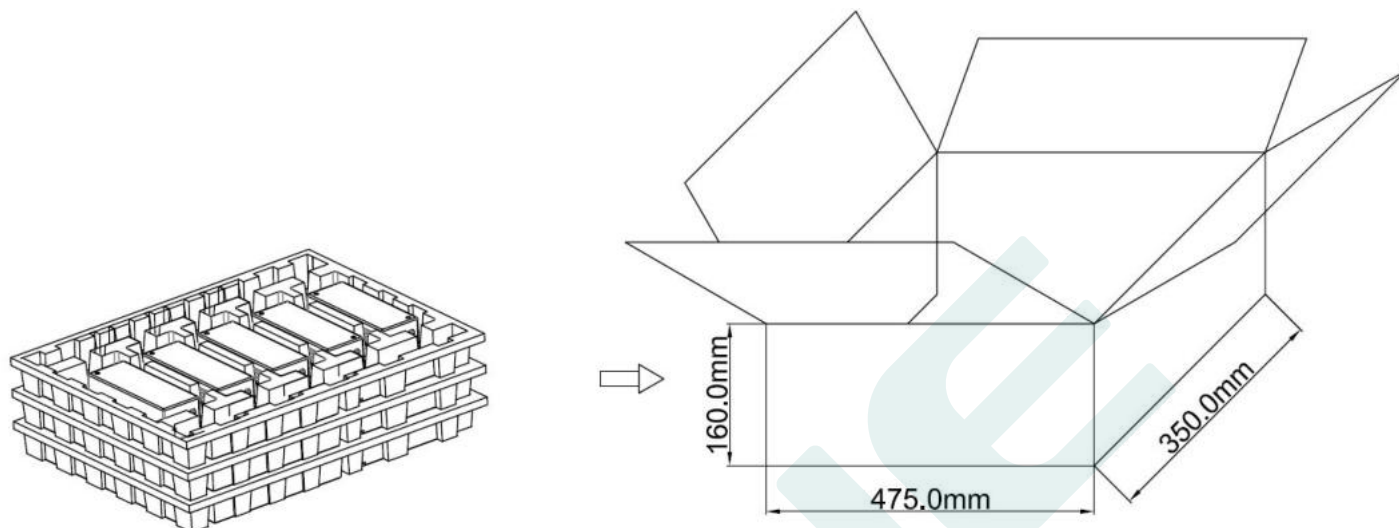
WEIGHT

Weight	1060g
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	Product Line	DL-200W-S/A-MAP	REV.	1.5

■ PACKAGING

Packaging (mm)	L475*W350*H160mm
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Remarks : A case of 3 layers , Each layer of 5 PCS

Warn:

1. According to the certificate obtained by the power supply, the LED DRIVER with English label is applicable to luminaires sold in Europe, America and India;
2. The LED DRIVER with Chinese label is only used for luminaires sold to China.