



PRODUCT SPECIFICATION

0656 Series LED Driver

Model NO. : MNHN2065YD-C03501-M、 MNHN2044YD-C03501-M

Description : 65W LED Driver、 44W LED Driver

Prepared By	Review By	Approval By

Customer Authorized Signature

Please return to us one copy of "PRODUCT SPECIFICATION" with you approved signature.

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FEATURES

- 1. Output flicker-free, meeting the standard of Flicker-free
- 2. Input and output without locking screw fastening design freedom
- 3. Compact design
- 4. 198-264VAC input
- 5. Built in active PFC function, high PF, low THD
- 6. Turn on delay time < 0.5s
- 7. Natural cooling
- 8. For indoor lighting only
- 9. 5 years warranty

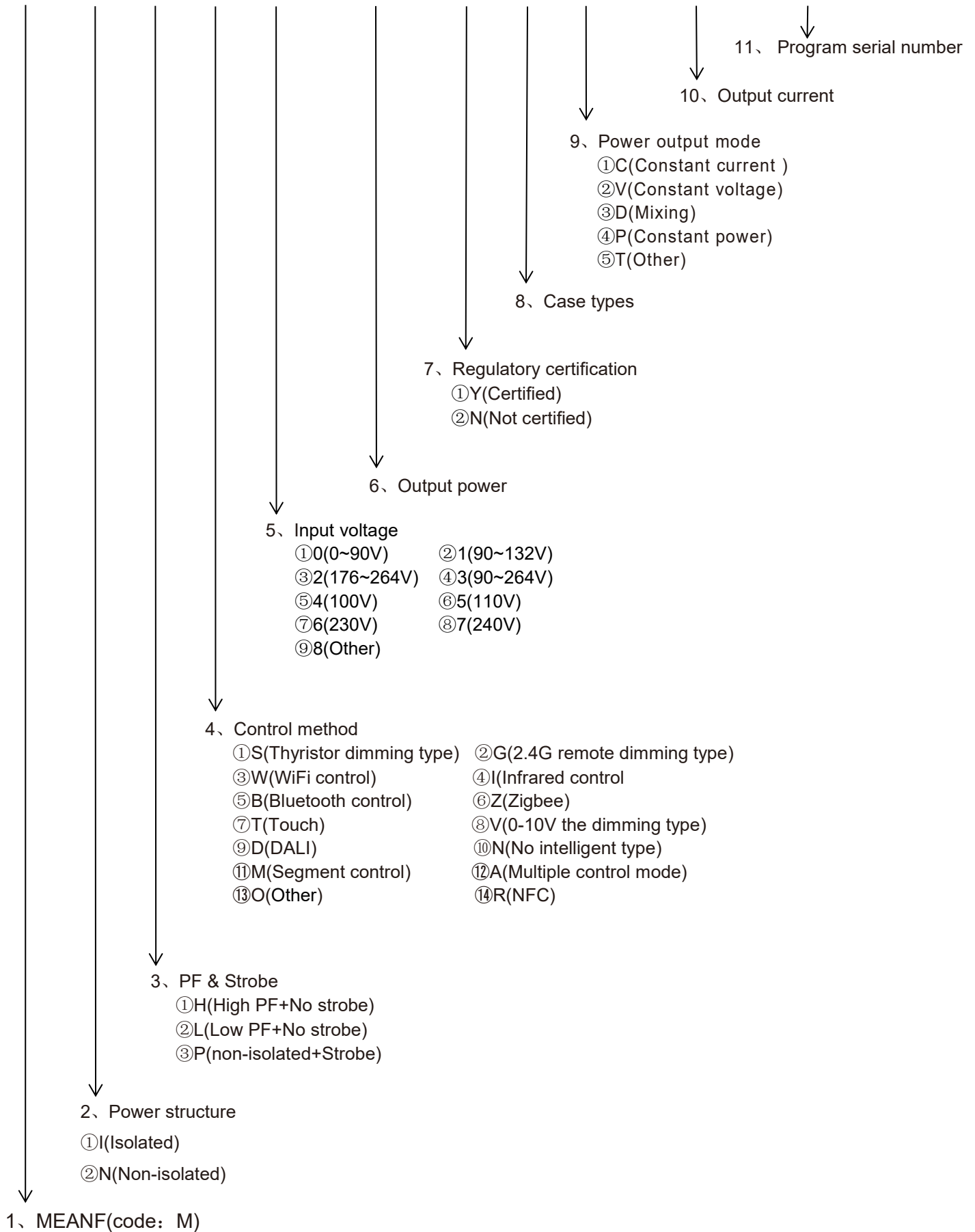
APPLICATION

- 1. LED indoor lighting
- 2. LED office lighting
- 3. LED architectural lighting



Power numbering principle

M-X-X-X-X-XXX-X-X-X-XXXX-X





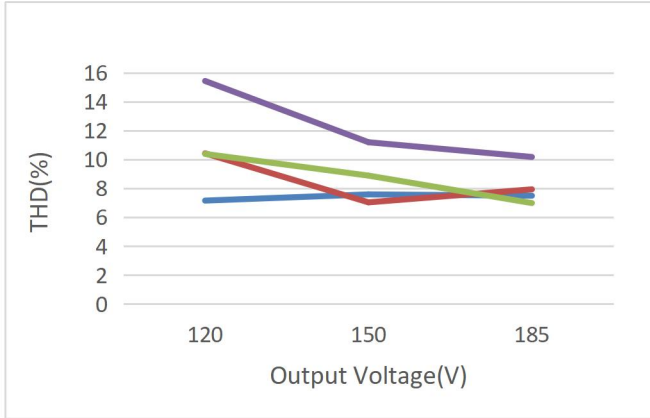
MODEL	MNHN2065YD-C03501-M	MNHN2044YD-C03501-M
OUTPUT		
DC current	0.3A	0.25A
DC voltage range	125-185V	76-125V
Rated power	65W Max.	44W Max.
Voltage ripple & noise note.2	≤3000mV(Vpp)	≤3000mV(Vpp)
Current ripple & noise	≤52.5mA(RMS)	≤52.5mA(RMS)
Constant current ADJ. range	0.2-0.35A	0.2-0.35A
Constant current accuracy	±8%	±8%
Line regulation	±8%	±8%
Load regulation	±8%	±8%
INPUT		
Rated voltage	220-240VAC	
Input voltage range	198-264VAC	
Frequency range	50-60Hz	
Power factor	PF>0.9 @ 230VAC/full load	
Total harmonic distortion	THD<15% @ 230VAC/full load	
Efficiency (Typ.)	92%	
Standby power	N/A	
Input current	<0.3A <0.25A	
Inrush current(Typ.)	See data table for details	
Max. No. of PSUs on 16A circuit breaker	See data table for details	
Turn on delay	<0.5s	
PROTECTION		
Short circuit	If the output appears unusual, causes the product of anode and short sub, this product will start short circuit protection function, and not because this abnormality in product permanent damage	
Max output voltage	185V 125V	
Over temperature	The output shall hiccup when the temperature exceed the standard value, and shall be self-recovery when the fault condition is removed	
ENVIRO-HMENT		
Operation temperature	-20-60℃	
Operation humidity	10-90% RH non-condensing	
Storage temperature/humidity	-40-70℃ 5-95% RH	
IP class	IP20	
Vibration	10 to 300Hz sweep at a constant acceleration of 1.0G(Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z	
Tc Note.4	Tc=85℃(Ta=45℃)	
MTBF	The MTBF shall be at least 50,000hours at 25℃, Full load and nominal input condition	
LIFETIME	See life curve for details	
EMC		
EMC emission Note.3	Compliance to EN55015:2006+A1 2007,EN61000-3-2:2000,CLASS A ,EN61000-3-3:1995+A1:2001	
EMC immunity	Compliance to EN61000-4-2,3,5,8,11 EN61000-3-2,3 EN61000-6-1,3	
SAFETY		
Safety standards	EN61347-1/2-13,GB19510.1/14,EN62384	
Flicker-free standard	GB19510,IEC/EN61547,IEC61347/IEC62384,AS/NZS 4417	
Stroboscopic depth	< 5% , frequency < 100 Hz	
Certificate	CE,ENEC,UKCA	
Dielectric Strength	Primary to Secondary: 1750Vac 10mAmax / 60second(1second for production)	
Surge	DM 1KV (L - N) /DM 2KV (L - GND)(N - GND)	
Leakage current	0.5mAmax @ 264Vac/50HZ	
Isolation resistance	50MΩ min. at primary to secondary add 500Vdc test voltage	
INTERFACE		
Environmental protection	RoHS	
Input connection	PCB connector/3PIN/grey+grey/0.75-1.5mm ²	
Output connection	PCBconnector/2PIN/black+red/0.5-1.5mm ²	
<p>NOTE: 1.All parameter are measured at 230VAC input, rated load and 25℃ 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 paralld capacitor. 3.The power supply is considers as a compent that will be operated in combination with final equipment.Since EMC performance will be affected by the complete installation the final equipment manufactures must re-quality EMC directive on the complete installation again. 4.If this driver used for led lighting,the TC should not higher than TC showed on the driver when the lighting working on the highest rated working temprature.</p>		

Electrical characteristics

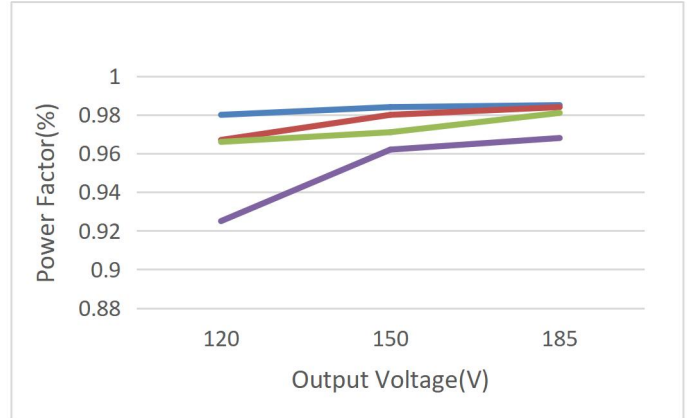


MODEL:MNHN2065YD-C03501-M Electrical characteristics(@230VAC)

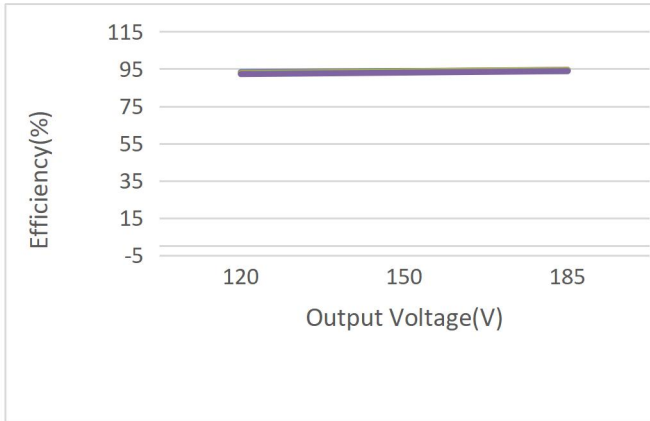
THD vs.Load



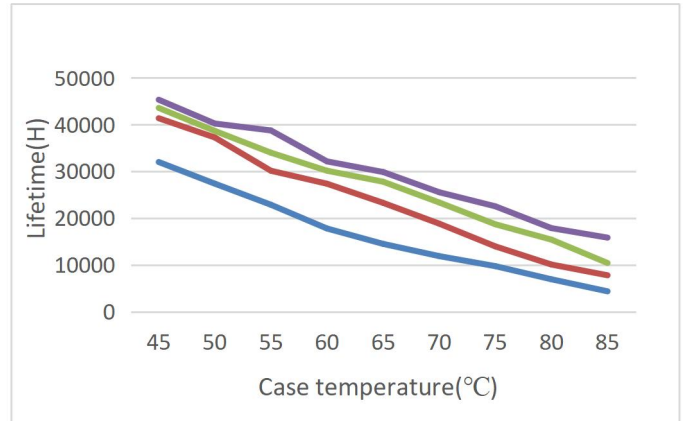
Power factor vs.Load



Efficiency vs.Load



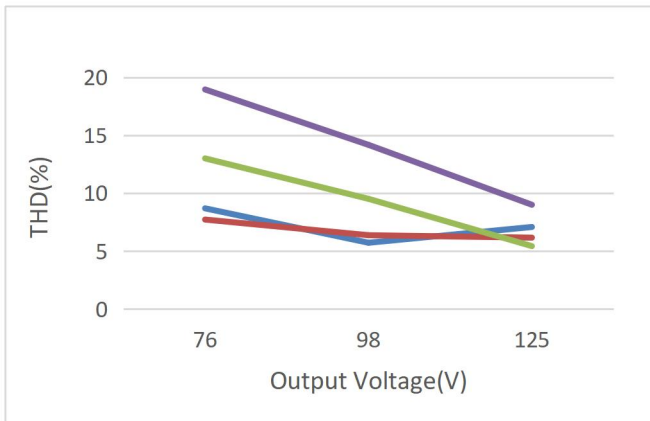
Lifetime vs. case temperature



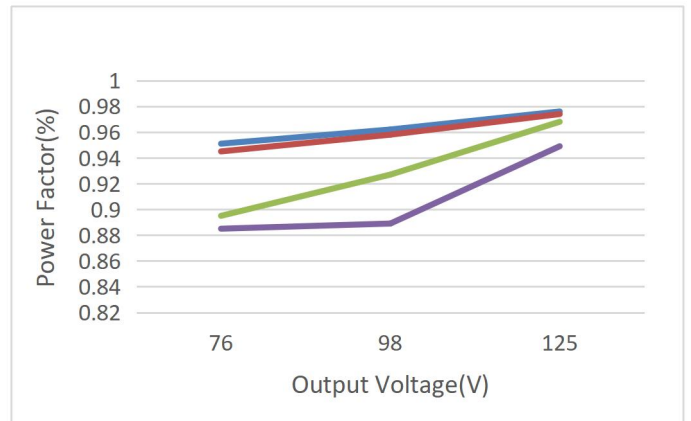


MODEL:MNHN2044YD-C03501-M Electrical characteristics(@230VAC)

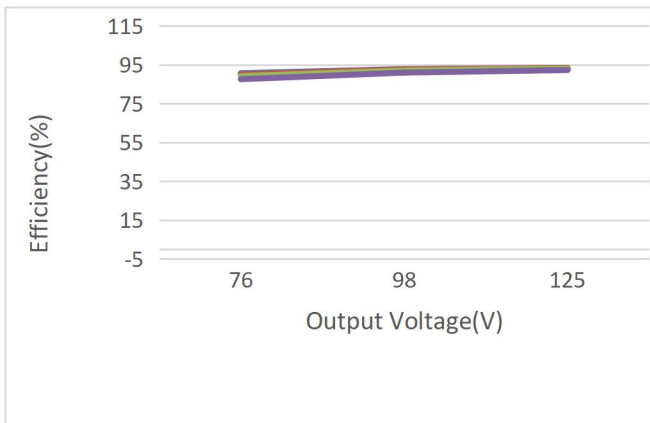
THD vs.Load



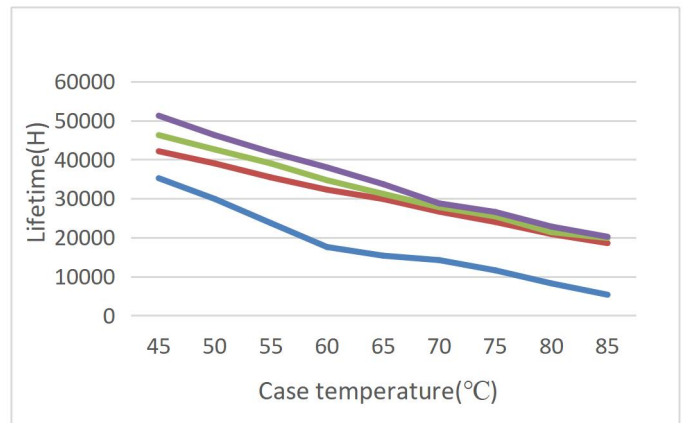
Power factor vs.Load



Efficiency vs.Load



Lifetime vs. case temperature





Surge curve

MNHN2065YD-C03501-M

Specification item	Value	unit	Condition
Inrush current Ipeak	21.1	A	Input voltage 230V
Inrush current Twidth	50	us	Input voltage 230V,width at 50% peak

MNHN2044YD-C03501-M

Specification item	Value	unit	Condition
Inrush current Ipeak	14.4	A	Input voltage 230V
Inrush current Twidth	50	us	Input voltage 230V,width at 50% peak

Label

MNHN2065YD-C03501-M

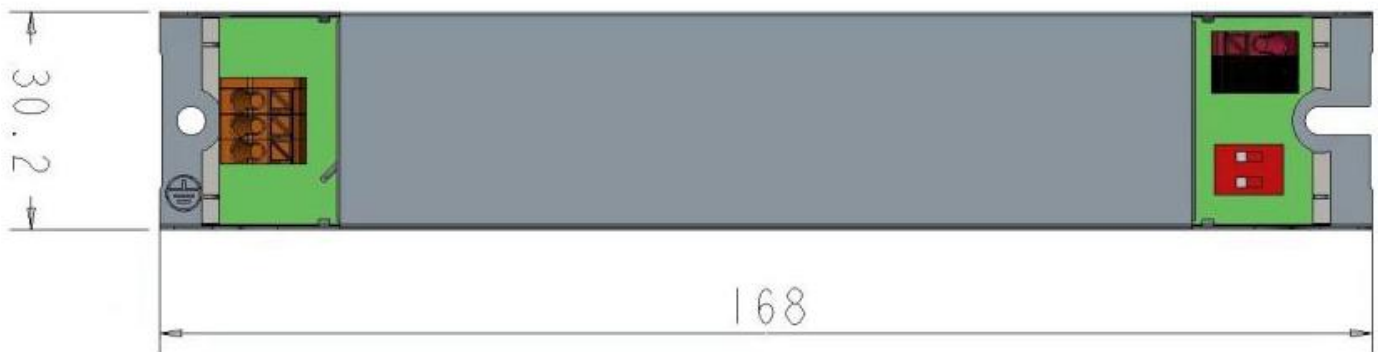
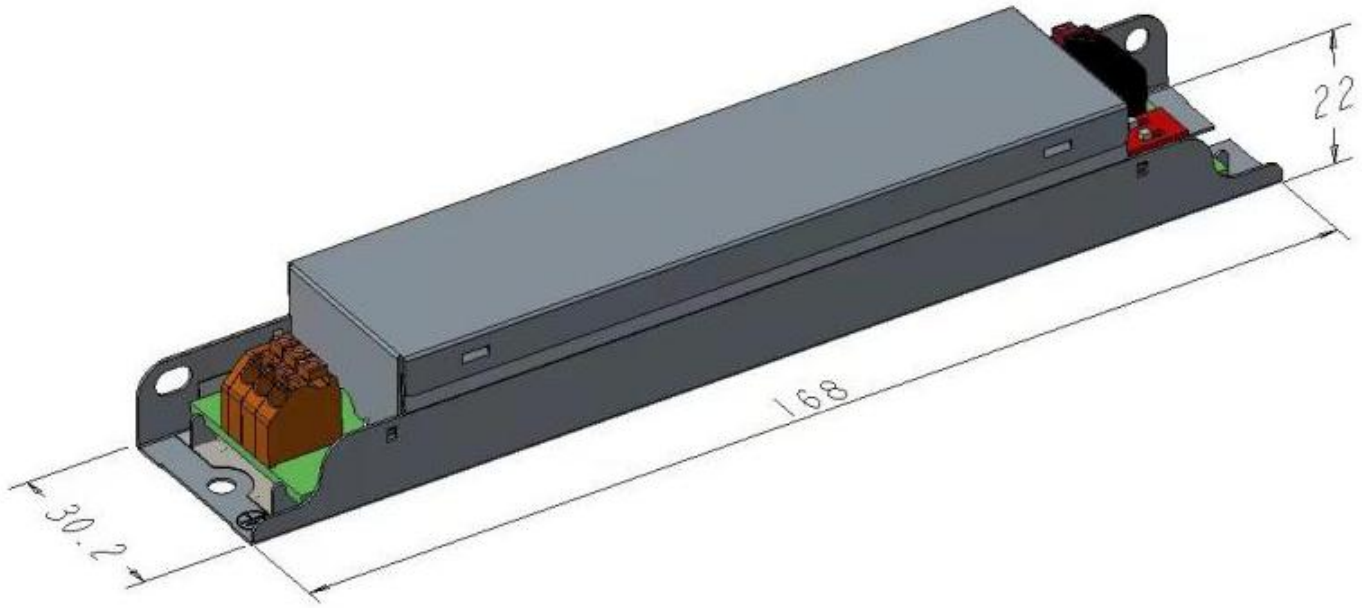
	<p>LED DRIVER (LED控制装置)</p> <p>Model:MNHN2065YD-C03501-M</p> <p>MeanFull Power Supply Technology Co., Ltd</p> <p>Made in China(中国制造)</p>	<table border="1"> <tr> <td>Uin: 220-240V</td> <td>Pout: 65W</td> </tr> <tr> <td>Iin: 0.4A</td> <td>Uout:120-185Vdc</td> </tr> <tr> <td>Freq: 50/60Hz</td> <td>230Vdc max.</td> </tr> <tr> <td>PF: 0.9C</td> <td>Iout: 0.2/0.25/0.3/0.35A</td> </tr> <tr> <td>ta: 45°C</td> <td></td> </tr> <tr> <td>tc: 75°C</td> <td></td> </tr> </table>	Uin: 220-240V	Pout: 65W	Iin: 0.4A	Uout:120-185Vdc	Freq: 50/60Hz	230Vdc max.	PF: 0.9C	Iout: 0.2/0.25/0.3/0.35A	ta: 45°C		tc: 75°C		<table border="1"> <thead> <tr> <th colspan="3">Irated selection</th> </tr> <tr> <th>Irated</th> <th>Pin1</th> <th>Pin2</th> </tr> </thead> <tbody> <tr> <td>0.35A</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>0.30A</td> <td>OFF</td> <td>ON</td> </tr> <tr> <td>0.25A</td> <td>ON</td> <td>OFF</td> </tr> <tr> <td>0.20A</td> <td>OFF</td> <td>OFF</td> </tr> </tbody> </table>	Irated selection			Irated	Pin1	Pin2	0.35A	ON	ON	0.30A	OFF	ON	0.25A	ON	OFF	0.20A	OFF	OFF	<p>LED - 1</p> <p>LED + 2</p> <p>ON ↔ OFF</p>
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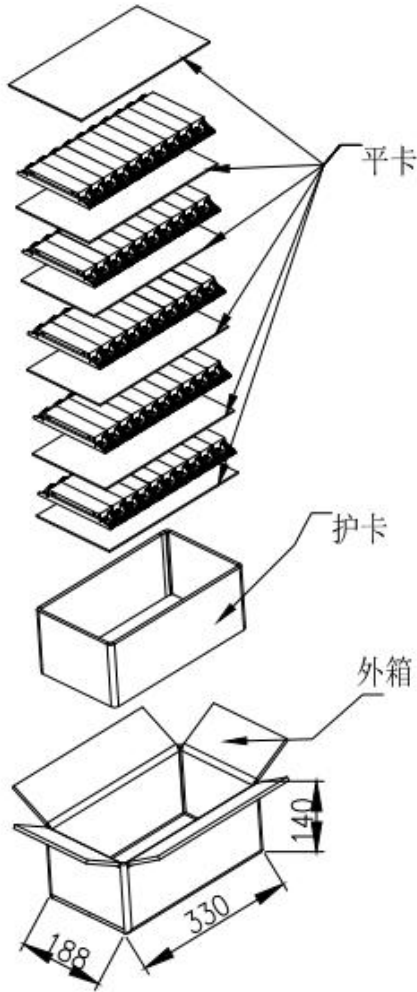


Mechanical specification (Unit:mm)





Product package (Unit:mm)

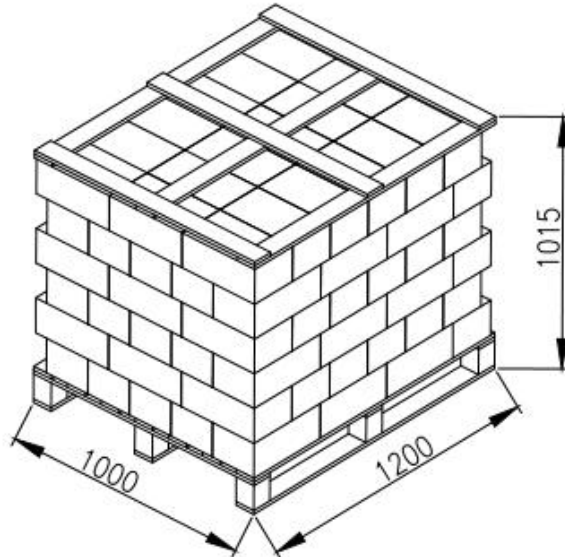


包装重量			
包装	容量	净重 (kg)	皮重 (kg)
1PC	/	0.111	/
1箱	50PCS	5.55	6.00
1层	18箱	99.90	108.00
1托盘	6层	599.40	648.00
1托盘	5400PCS	599.40	648.00
托盘	/	30.00	30.00
产品+托盘	/	629.40	678.00

包装尺寸			
包装	长 (mm)	宽 (mm)	高 (mm)
电源产品	168.0	30.2	21.0
平卡	310.0	170.0	2.8
护卡	320.0	178.0	125.0
外箱	330.0	188.0	140.0
托盘	1200.0	1000.0	1015.0

外箱尺寸: 330*188*140mm
平卡尺寸: 310*170*2.8mm
托盘尺寸: 1200*1000*1015mm

单个产品重量: 0.111kg
整箱净重: 5.55kg, 整箱毛重: 6kg
每托108箱, 每层18箱, 共6层
50pcs/箱 5400pcs/托盘



Model	Product size	Weight	Flat card	Carton size	Packing	N.W	G.W
0656	L168*W30.2*H22mm	0.111/kg	L310*W170*H2.8mm	L330*W188*H140mm	50pcs	5.55/kg	6/kg