

# High Wattage LED Light Engine

Ideal for easy design of lighting application 5W ... 60W

Maxi chips packaged for excellent heat dissipation



**20 Watt**

**DM-C-R14-20 series**



DM-C-R14-20

*beam angle: 140 deg.*

*forward current: 1,6A max.*

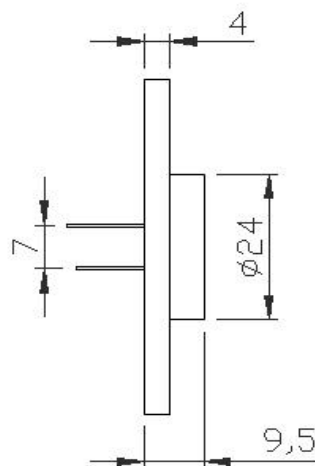
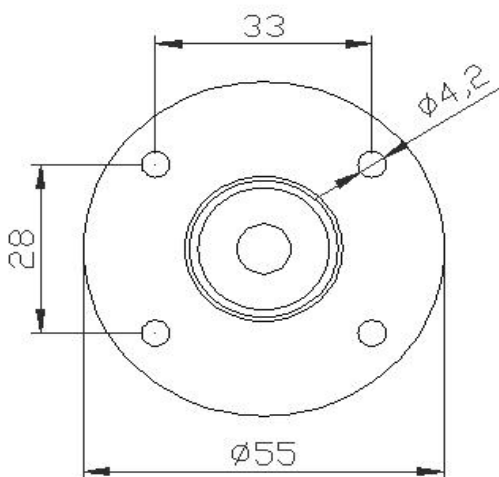
*Thermal management:*

*lamp base efficiently drains heat from LED chips.*

*Secondary heat-sink has to be designed to assure correct thermal management within system operative limit conditions.*

*Check performance and stability of total system testing temperature of lamp base when coupled with secondary heat-sink and housing of your fixture.*

*Be sure that the temperature of lamp base never exceeds 80°C max. value.*



dimensions in mm.

*Some dimensions are subject to be changed without prior notice. Reconfirm data in case of critical application.*

Part Nbr.	Color	Flux(lm)	λD (nm)		VDC			Driver (optional)
			CCT (°K)	min.	Typ.	max.		
DM-C-R14-20R	Red	600	620 nm	8,8	9,1	11,0	<b>PH201600</b> I <sub>DC</sub> 1,6A	
DM-C-R14-20G	Green	600	530 nm	11,0	11,2	11,4		
DM-C-R14-20B	Blue	160	470 nm	10,2	10,4	10,8		
DM-C-R14-20A	Amber	600	590 nm	8,8	9,1	11,0		
DM-C-R14-20W35	Warm White	560	3.500 °K	10,2	10,4	10,8		
DM-C-R14-20W60	White	600	6.000 °K	10,2	10,4	10,8		

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**DOMA**  
LED TECH CO., LTD

**20 Watt**

**DM-C-R10-20 series**



DM-C-R10-20

*beam angle: 100 deg.*

*forward current: 1,6A max.*

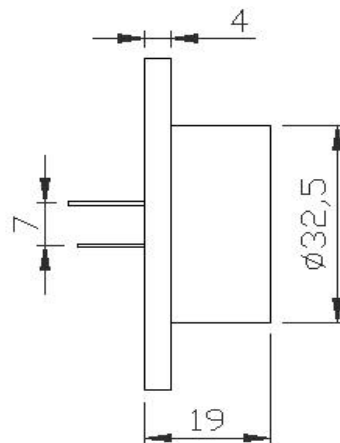
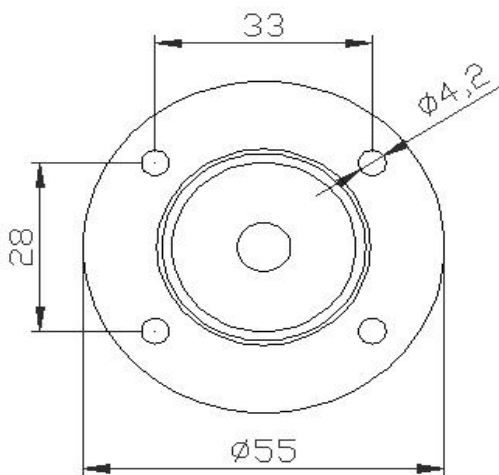
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dimensions in mm.

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Part Nbr.	Color	Flux(lm)	$\lambda$ D (nm)		VDC			Driver (optional)
			CCT (°K)	min.	Typ.	max.		
DM-C-R10-20R	Red	600	620 nm	8,8	9,1	11,0	PH201600 I <sub>bc</sub> 1.6A	
DM-C-R10-20G	Green	600	530 nm	11,0	11,2	11,4		
DM-C-R10-20B	Blue	160	470 nm	10,2	10,4	10,8		
DM-C-R10-20A	Amber	600	590 nm	8,8	9,1	11,0		
DM-C-R10-20W35	Warm White	560	3.500 °K	10,2	10,4	10,8		
DM-C-R10-20W60	White	600	6.000 °K	10,2	10,4	10,8		

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Ideal for easy design of lighting application 5W ... 60W  
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**DOMAƏ**  
LED TECH CO.,LTD

**20 Watt**

**DM-C-R08-20 series**



DM-C-R08-20

*beam angle: 80 deg.*

*forward current: 1,6A max.*

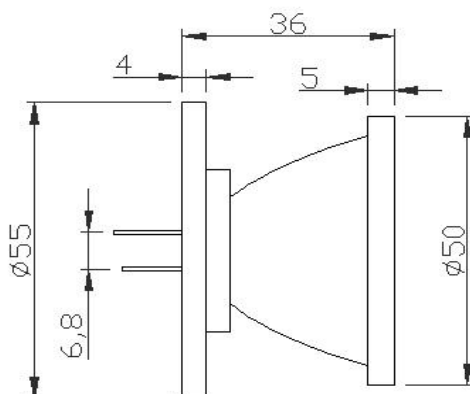
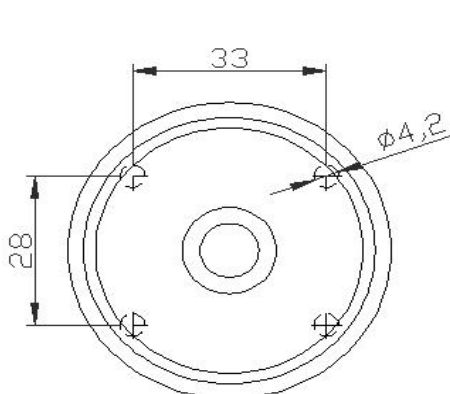
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dimensions in mm.

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Part Nbr.	Color	Flux(lm)	λD (nm)		VDC			Driver (optional)
			CCT (°K)	min.	Typ.	max.		
DM-C-R08-20R	Red	600	620 nm	8,8	9,1	11,0	PH201600 I <sub>dc</sub> 1,6A	
DM-C-R08-20G	Green	600	530 nm	11,0	11,2	11,4		
DM-C-R08-20B	Blue	160	470 nm	10,2	10,4	10,8		
DM-C-R08-20A	Amber	600	590 nm	8,8	9,1	11,0		
DM-C-R08-20W35	Warm White	560	3.500 °K	10,2	10,4	10,8		
DM-C-R08-20W60	White	600	6.000 °K	10,2	10,4	10,8		

# High Wattage LED Light Engine

Ideal for easy design of lighting application 5W ... 60W

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**20 Watt**

**DM-R-R08-20 series**



DM-R-R08-20

beam angle: 80 deg.

forward current: 1,6A max.

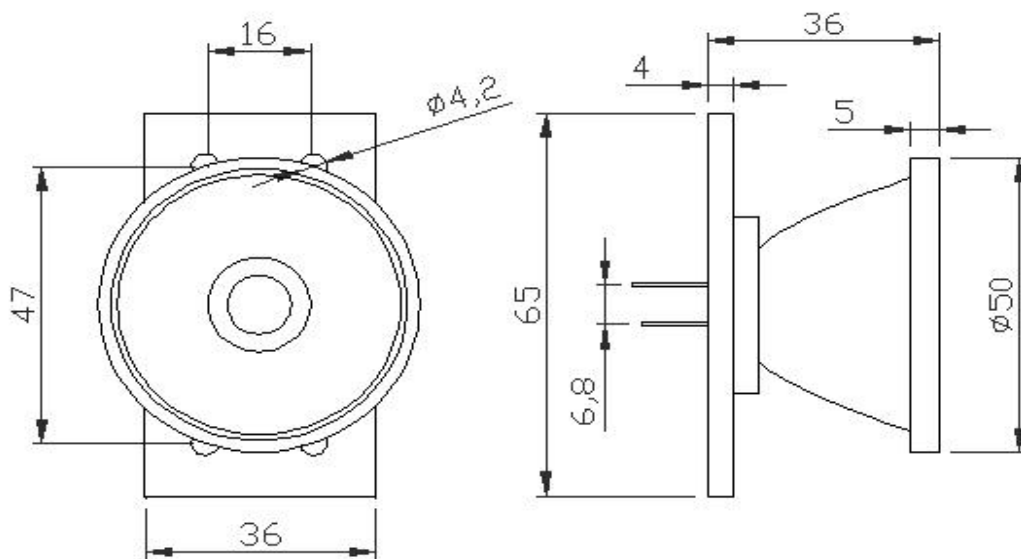
**Thermal management:**

*lamp base efficiently drains heat from LED chips.*

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*Check performance and stability of total system testing temperature of lamp base when coupled with secondary heat-sink and housing of your fixture.*

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dimensions in mm.

Some dimensions are subject to be changed without prior notice. Reconfirm data in case of critical application.

Part Nbr.	Color	Flux(lm)	λD (nm)		VDC			Driver (optional)
			CCT (°K)	min.	Typ.	max.		
DM-R-R08-20R	Red	600	620 nm	8,8	9,1	11,0	PH201600 I <sub>bc</sub> 1,6A	
DM-R-R08-20G	Green	600	530 nm	11,0	11,2	11,4		
DM-R-R08-20B	Blue	160	470 nm	10,2	10,4	10,8		
DM-R-R08-20A	Amber	600	590 nm	8,8	9,1	11,0		
DM-R-R08-20W35	Warm White	560	3.500 °K	10,2	10,4	10,8		
DM-R-R08-20W60	White	600	6.000 °K	10,2	10,4	10,8		

# AC to DC switching power supply

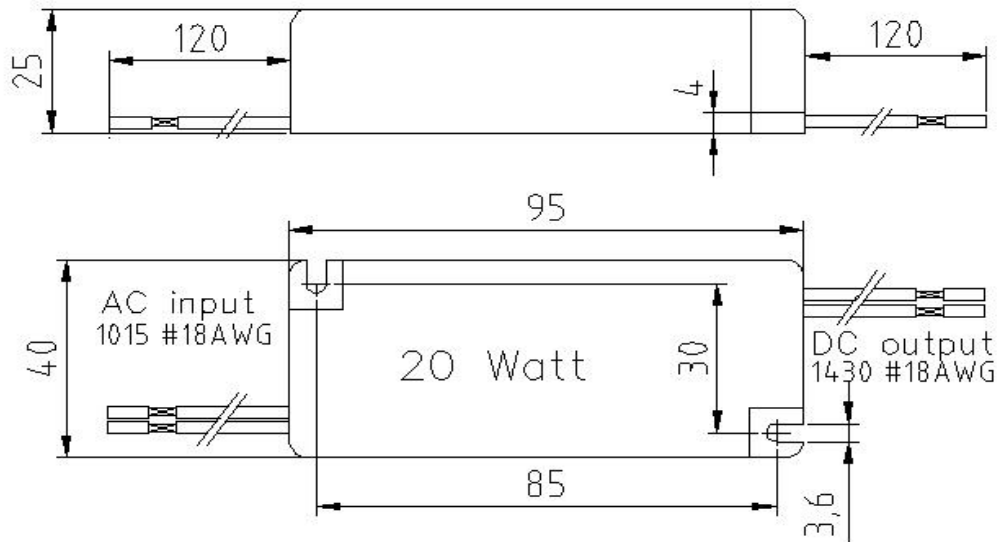
Ideal for MLED light engine

Specially designed, universal power driver from AC city power



**DOMA**  
LED TECH CO., LTD

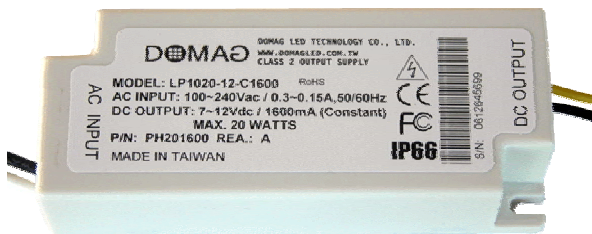
## 20 Watt LED optimized driver



dimensions in mm.

**PH201600 (LP1020-12-C1600)**

**Constant Current DC Output: 1,6A**



**Safety : UL1310 - UL48 Class2 - cUL - FCC B - CE - RoHS**

**Protection classification: IP66**

**AC Input range: 100~240VAC / 0,3~0,15A / 50~60Hz**

**DC Output: 7~12VDC**

**Watts: 20W**

**Operation Temp. : -30°C~+60°C Tc: 90°C**

**Power factor: >0,92 at full load, 115VAC-230VAC**

**Efficiency : 85% Typical**

**PH201600 is suitable driver for single colour:**

**DM-C-R08-20xxx      DM-R-R08-20xxx**

**DM-C-R10-20xxx     DM-C-R14-20xxx**