



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
RC6W150A9	150mA	0.05A	8.5W	4.05-6W	0.9	81%	27-40V	55V
RC6W500A9	500mA	0.05A	9W	4-6.5W	0.9	78%	8-13V	35V
RC10W200A9	200mA	0.06A	11W	5.4-8W	0.9	82%	27-40V	55V
RC10W250A9	250mA	0.07A	13.5W	6.75-10W	0.9	82%	27-40V	55V
RC10W300A9	300mA	0.06A	12W	5.7-9W	0.9	82%	19-30V	45V
RC10W350A9	350mA	0.07A	13.5W	6.65-10.5W	0.9	84%	19-30V	45V
RC10W400A9	400mA	0.06A	10.5W	5.2-8.4W	0.9	84%	13-21V	35V
RC10W500A9	500mA	0.07A	13.5W	6.5-10.5W	0.9	84%	13-21V	35V
RC10W700A9	700mA	0.06A	10W	5.6-9.1W	0.9	80%	8-13V	35V
RC12W300A9	300mA	0.08A	15.5W	8.1-12W	0.9	83%	27-40V	55V

* Test result @230V, 50Hz, Full Load.

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	IP Grade	IP44
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 220-280VDC
	Frequency	50/60Hz
	Input Current	≤0.08A (230VAC, full load)
	Input Power	≤ 12W (230VAC, full load)
	Power Factor	≥0.9 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
Output	Current Accuracy	±7%(150mA,200mA,250mA) ±5%(300mA,350mA,400mA,450mA,500mA,600mA,650mA,700mA)
	Max. Output Power	12W
	Started Delay Time	≤0.5S (230VAC, full load)

	Current Ripple (< 120 Hz)	$\pm 5\% (I_{max}-I_{min}) / (I_{max}+I_{min})$
	PstLM	≤ 1
	SVM	≤ 0.4
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	/
	Insulation voltage	3750V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250 μ A
Environment	Ta/Operation Temperature	-20....+60℃
	Ts/Storage Temperature	-30....+85℃
	Tc/Enclosure Temperature	90 ℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Direct Lead
	Installation	Built-in
	PRI Wire preparation	0.5-1.5 [□]
	SEC Wire preparation	0.5-1.5 [□]
	Dimension	Φ42.5*22.5mm (R*H)
Standards	Certification	TUV/SAA/CCC/CE/CB
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,E N62493:2015, AS61347.2.13:2018, AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019, EN IEC 55015:2019/A11:2019, EN IEC 61000-3-2:2019, EN 61000-3-3:2013/A1:2019, EN61547:2009,
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50,000h @Ta=60℃
	Warranty	5years
	Noise	$\leq 20\text{dB}$ @Background noise $\leq 15\text{dB}$, Interval $\geq 20\text{cm}$

Remark

1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.
2. LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

2. Connected quantities of different current Breake

TYPE	RC6W150A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		143	186	229	286	357	@230VAC	4.2	5.8us
TYPE C		229	297	366	457	571			
TYPE D		366	475	585	731	914			

TYPE	RC6W500A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		130	170	209	261	326	@230VAC	4.6	7.8us
TYPE C		209	271	334	417	522			
TYPE D		334	434	534	668	835			

TYPE	RC10W200A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		120	156	192	240	300	@230VAC	5	3.2us
TYPE C		192	250	307	384	480			
TYPE D		307	399	492	614	768			

TYPE	RC10W250A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		122	159	196	245	306	@230VAC	4.9	4.3us
TYPE C		196	255	313	392	490			
TYPE D		313	408	502	627	784			

TYPE	RC10W300A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		91	118	145	182	227	@230VAC	6.6	2.8us
TYPE C		145	189	233	291	364			
TYPE D		233	303	372	465	582			

TYPE	RC10W350A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		102	132	163	203	254	@230VAC	5.9	3.8us
TYPE C		163	212	260	325	407			
TYPE D		260	338	417	521	651			

TYPE	RC10W400A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		95	124	152	190	238	@230VAC	6.3	3.8us
TYPE C		152	198	244	305	381			
TYPE D		244	317	390	488	610			

TYPE	RC10W500A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		90	116	143	179	224	@230VAC	6.7	2.9us
TYPE C		143	186	229	287	358			
TYPE D		229	298	367	459	573			

TYPE	RC10W700A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		85	110	135	169	211	@230VAC	7.1	3.1us
TYPE C		135	176	216	270	338			
TYPE D		216	281	346	433	541			

TYPE	RC12W300A9 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		77	100	123	154	192	@230VAC	7.8	3.4us
TYPE C		123	160	197	246	308			
TYPE D		197	256	315	394	492			

3. Label

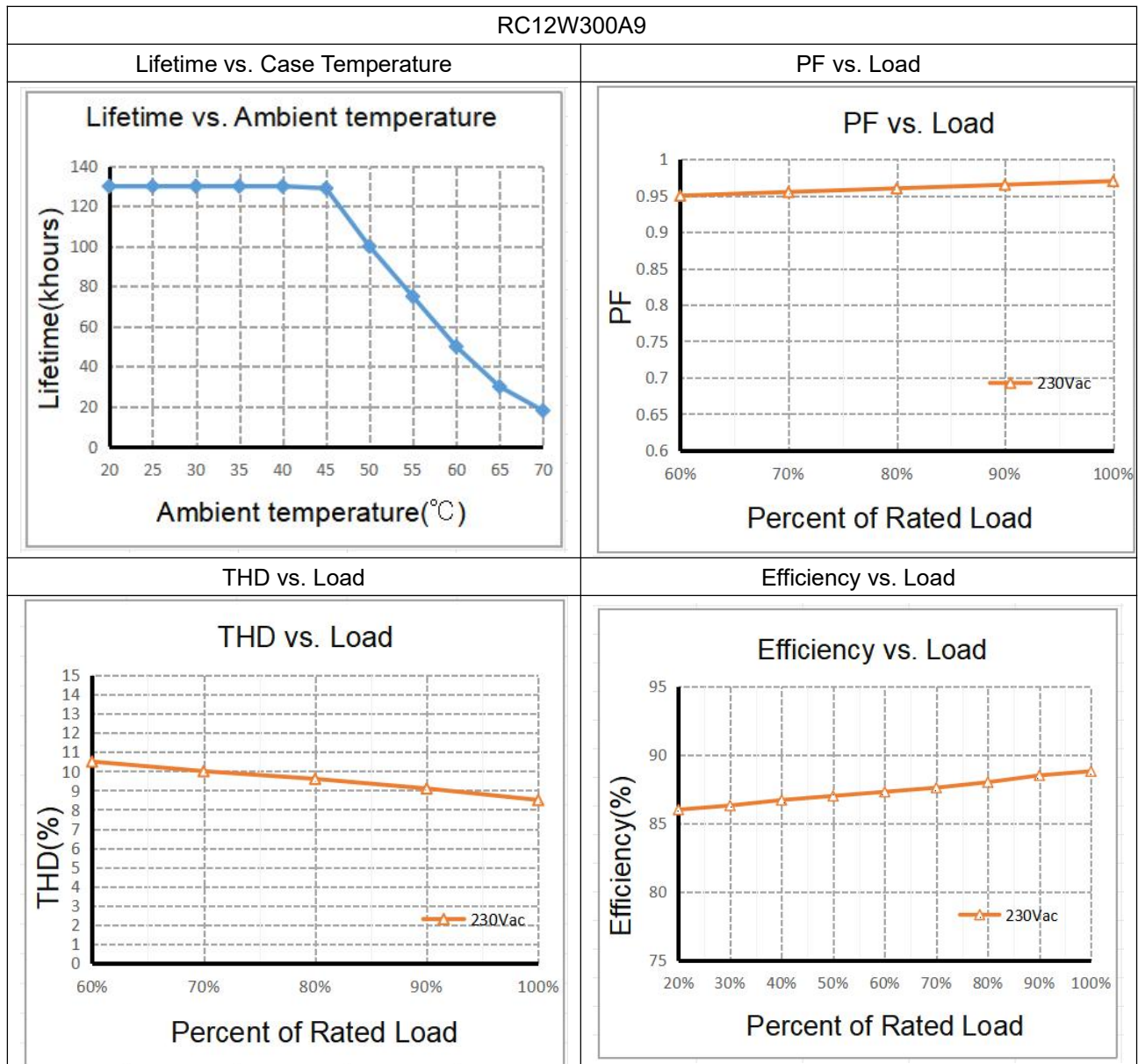




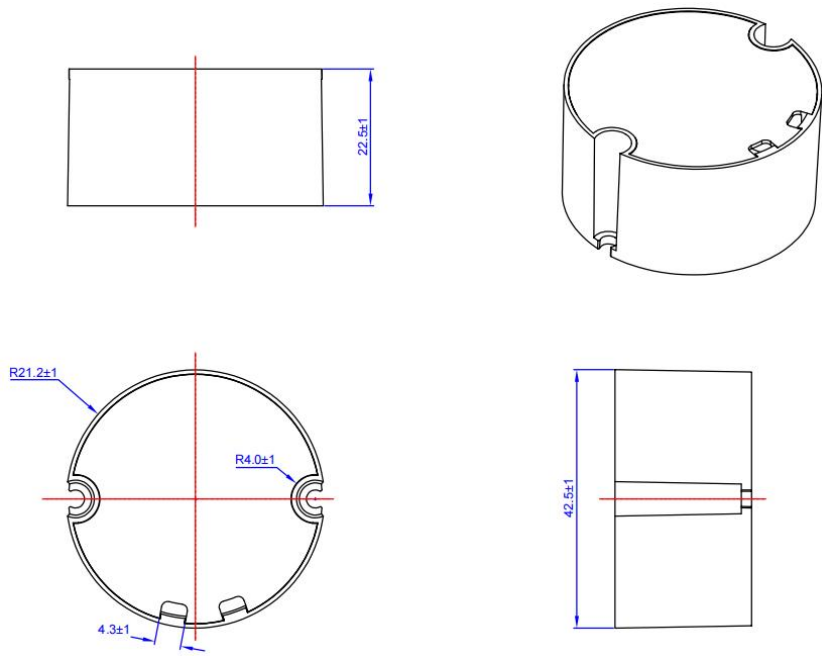
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4. Electrical values



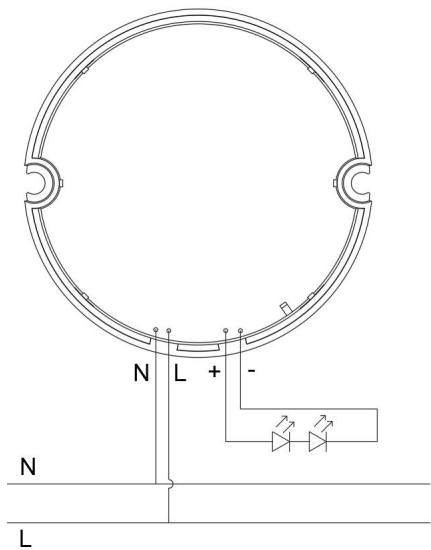
5. Dimension (Unit: mm)



6. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
450*240*200	150	0.058	8.7	11.7

7. Wiring Diagram





8. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)

9. REVISION HISTORY

DATE	VER	REMARK
2024-6-18	V1.0	Initial release.