RCXXWXXXA9

Constant Current Driver

Model: RCXXWXXXA9

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
RC15W300A9	300mA	0.1A	19W	10.8-15W	0.9	85%	36-50V	63V
RC15W350A9	350mA	0.09A	17W	9.45-14W	0.9	85%	27-40V	55V
RC15W400A9	400mA	0.11A	20W	9.6-16W	0.9	85%	27-40V	55V
RC15W500A9	500mA	0.1A	19W	9.5-15W	0.9	85%	19-30V	55V
RC15W700A9	700mA	0.1A	18.5W	9.1-14.7W	0.9	85%	13-21V	35V
RC20W450A9	450mA	0.12A	22.5W	12.15-18W	0.92	86%	27-40V	55V
RC20W500A9	500mA	0.13A	24.5W	13.5-20W	0.95	86%	27-40V	55V
RC20W700A9	700mA	0.13A	26W	13.3-21W	0.95	86%	19-30V	45V
RC24W550A9	550mA	0.14A	27W	14.85-22W	0.95	87%	27-40V	55V
RC24W600A9	600mA	0.15A	29W	16.2-24W	0.95	87%	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	≤0.15A
	Input Power	≤ 29W
	Power Factor	≥0.9 (230VAC，full load)
	THD	≤15% (230VAC，full load)
	No-load Power Consumption	≤0.5W @230VAC
Output	Current Accuracy	±5%
	Max. Output Power	24W
	Started Delay Time	≤0.5S (230VAC，full load)
	Current Ripple(< 120 Hz)	±5%（Imax-Imin）/（Imax+Imin）
	PstLM	≤1

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	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 μA
Environment	Ta/Operation Temperature	-20….+60℃
	Ts/Storage Temperature	-40….+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	Φ51X22.5mm (R*H)
Standards	Certification	TUV/SAA/CCC/CE/CB
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017, AS 61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019EN, IEC 55015:2019/A11:2019 ,EN IEC 61000-3-2:2019,EN 61000-3-3:2013/A1: 2019,EN61547:200
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50,000h @Ta=60℃
	Warranty	5years
	Noise	≤20dB @Background noise ≤15dB ，Interval≥20cm

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.

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2. Connected quantities of different current Breaker

TYPE	RC15W300A9 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		23	30	37	46	58	@230VAC	26	8.2us
TYPE C		37	48	59	74	92			
TYPE D		59	77	95	118	148			

TYPE	RC15W350A9 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		23	30	37	46	58	@230VAC	26	7.1us
TYPE C		37	48	59	74	92			
TYPE D		59	77	95	118	148			

TYPE	RC15W400A9 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		22	29	35	44	55	@230VAC	27.3	4.3us
TYPE C		35	46	56	70	88			
TYPE D		56	73	90	113	141			

TYPE	RC15W500A9 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		21	28	34	43	53	@230VAC	28.2	5.8us
TYPE C		34	44	54	68	85			
TYPE D		54	71	87	109	136			

TYPE	RC15W700A9 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		20	26	32	39	49	@230VAC	30.4	5.4us
TYPE C		32	41	51	63	79			
TYPE D		51	66	81	101	126			

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TYPE	RC20W450A9 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		20	25	31	39	49	@230VAC	30.7	3.8us
TYPE C		31	41	50	63	78			
TYPE D		50	65	80	100	125			

TYPE	RC20W500A9 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		19	25	31	38	48	@230VAC	31.2	5.2us
TYPE C		31	40	49	62	77			
TYPE D		49	64	79	98	123			

TYPE	RC20W700A9 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		18	24	29	36	45	@230VAC	33	4.6us
TYPE C		29	38	47	58	73			
TYPE D		47	61	74	93	116			

TYPE	RC24W550A9 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		19	25	31	39	49	@230VAC	30.8	6.3us
TYPE C		31	41	50	62	78			
TYPE D		50	65	80	100	125			

TYPE	RC24W600A9 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		19	25	31	38	48	@230VAC	31.3	4.7us
TYPE C		31	40	49	61	77			
TYPE D		49	64	79	98	123			

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3. Label


LED控制装置
LED Driver
RC15W300A9
PRI:220-240VAC 50/60Hz 0.1A PF:≥0.9
SEC:Constant Current:300mA
36-50VDC No load:63VDC Max.15W
ta:60℃ tc:90℃
For LED modules only
SELV


LED控制装置
LED Driver
RC15W350A9
PRI:220-240VAC 50/60Hz 0.09A PF:≥0.90
SEC:Constant Current:350mA
27-40VDC No load:55VDC Max.14W
ta:60℃ tc:90℃
For LED modules only
SELV


LED控制装置
LED Driver
RC15W400A9
PRI:220-240VAC 50/60Hz 0.1A PF:≥0.90
SEC:Constant Current:400mA
27-40VDC No load:55VDC Max.16W
ta:60℃ tc:90℃
For LED modules only
SELV


LED控制装置
LED Driver
RC15W500A9
PRI:220-240VAC 50/60Hz 0.1A PF:≥0.90
SEC:Constant Current:500mA
19-30VDC No load:45VDC Max.15W
ta:60℃ tc:90℃
For LED modules only
SELV


LED控制装置
LED Driver
RC15W700A9
PRI:220-240VAC 50/60Hz 0.1A PF:≥0.90
SEC:Constant Current:700mA
13-21VDC No load:35VDC Max.14.7W
ta:60℃ tc:90℃
For LED modules only
SELV


LED控制装置
LED Driver
RC20W450A9
PRI:220-240VAC 50/60Hz 0.12A PF:≥0.92
SEC:Constant Current:450mA
27-40VDC No load:55VDC Max.18W
ta:60℃ tc:90℃
For LED modules only
SELV

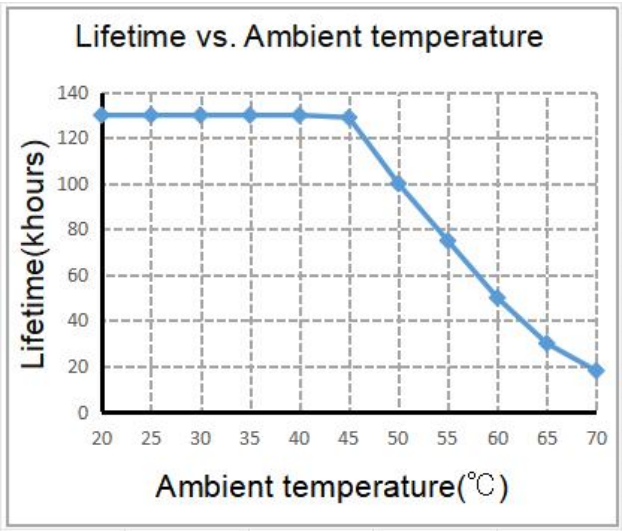
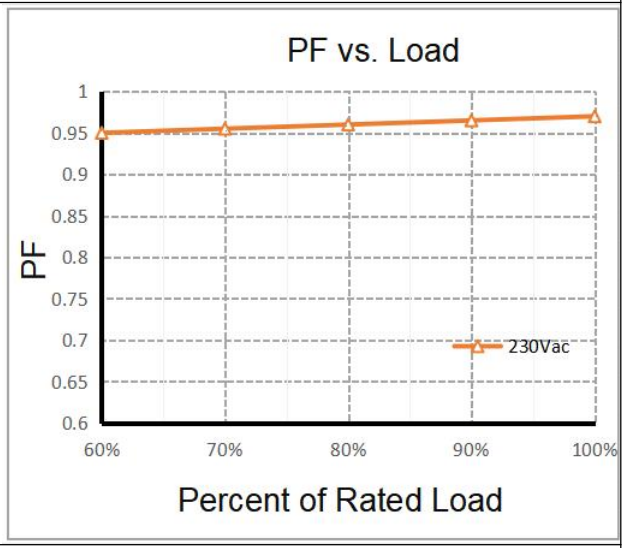
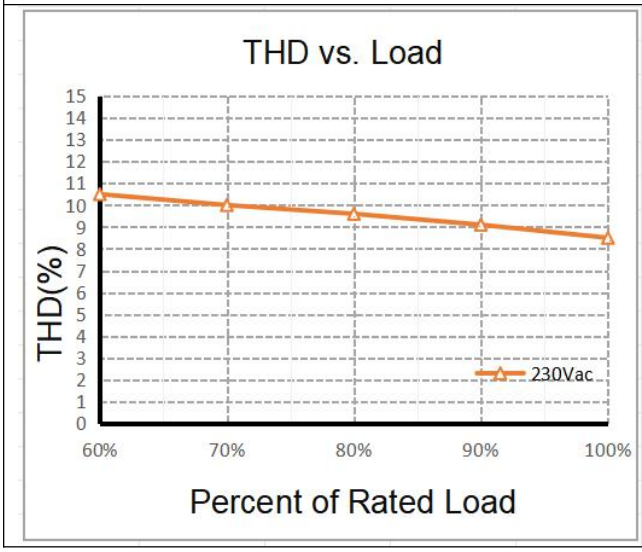
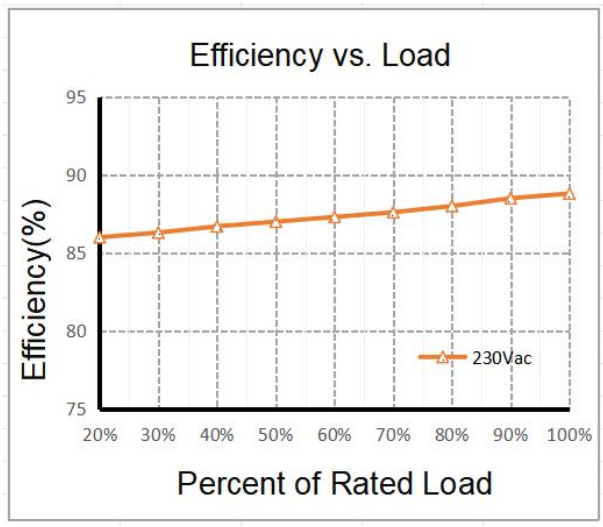

LED控制装置
LED Driver
RC20W500A9
PRI:220-240VAC 50/60Hz 0.13A PF:≥0.95
SEC:Constant Current:500mA
27-40VDC No load:55VDC Max.20W
ta:60℃ tc:90℃
For LED modules only
SELV


LED控制装置
LED Driver
RC20W700A9
PRI:220-240VAC 50/60Hz 0.13A PF:≥0.95
SEC:Constant Current:700mA
19-30VDC No load:45VDC Max.21W
ta:60℃ tc:90℃
For LED modules only
SELV

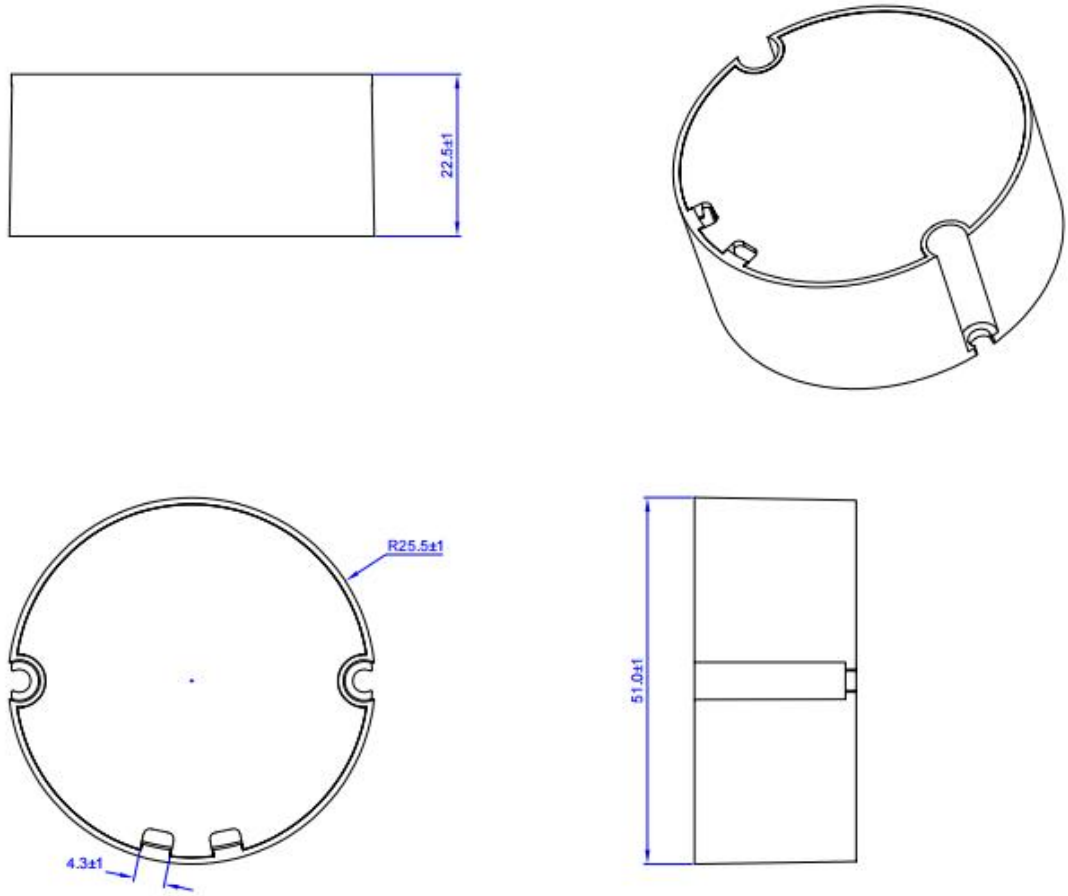

LED控制装置
LED Driver
RC24W550A9
PRI:220-240VAC 50/60Hz 0.14A PF:≥0.95
SEC:Constant Current:550mA
27-40VDC No load:55VDC Max.22W
ta:60℃ tc:90℃
For LED modules only
SELV


LED控制装置
LED Driver
RC24W600A9
PRI:220-240VAC 50/60Hz 0.15A PF:≥0.95
SEC:Constant Current:600mA
27-40VDC No load:55VDC Max.24W
ta:60℃ tc:90℃
For LED modules only
SELV

4. Electrical values

RC24W600A9	
Lifetime vs. Case Temperature	PF vs. Load
	
THD vs. Load	Efficiency vs. Load
	

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)
410*270*160	120	0.075	9	12

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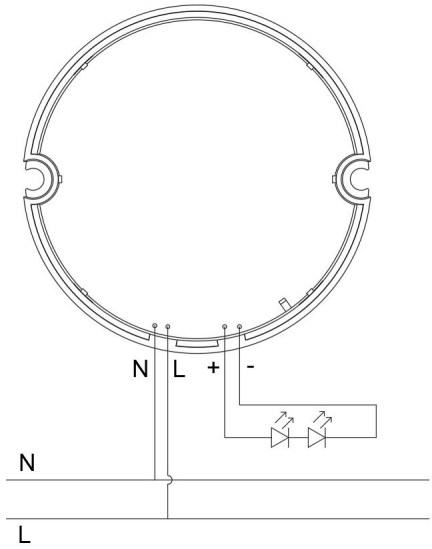
7. Wiring Diagram



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.

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