



**Constant Voltage Driver** 

Model: SVS-24030VG2

SVS-24060VG2











Model	Rated Input Voltage	Input Power	Input Current	PF	Output Power Range	Output Voltage	Output Current	Efficiency (typ.)	Cementig product
SVS-24030VG2		≤38W	≤0.19A	>0.05	0-30W		0-1.25A	86%	N
SVS-24060VG2	220-240VAC	≤72W	≤0.35A	≥0.95	0-60W	24V	0-2.5A	87%	Y

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

#### **Parameters**

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category	Item	Technical Norm							
Features	Output Type	Constant Voltage							
	Dimmable Type	Non-dim	mable						
	Output Features	Isolation	SELV						
	IP Grade	IP20							
	Insulation Class	Class II							
Input	Rated Input Voltage	220-240	VAC						
	Range of AC Input Voltage	176-264	176-264VAC						
	Range of DC Input Voltage	175-280VDC(EMI not evaluated)							
	Frequency	Rate:50/60Hz, Range:47~63Hz							
	Power Factor	≥0.95, 220-240VAC, Rated Load, see graphs							
	THD	≤10%	10% 230VAC,Rated Load, see graphs						
	Standby Power Consumption	≤0.5W, @230VAC,NO Load							
				lpeak( ty	Duration				
		Model	Ipeak	p.)	time	240Vac/50Hz,			
	Inrush Current	30W	<30A	22A	310us	90-degree phase, full load, cold start-up, duration time measure			
		60W	<30A	26A	220us	from 50%lpk to 50%lpk			



Output	Output Voltage	24VDC+5%						
	No load Voltage	24VDC+5%						
		30W <240mVPK-PK (0.5						
	Output Voltage Ripple	60W			<240mVPK-PK (0.5%)			
	Line Regulation	±1%			-			
	Load Regulation	±2%						
	Overshoot	<105%\	/o					
	Start-up Time	≤0.5S (2	220-240VAC)	)				
		Model	Hold-up time(mS)	Turn-off time(mS)	230VAC, LED Rated Load, Hold-up time measure from AC input turn-off to output			
	Hold-up time & Turn off time (Typical)	30W	30	72.3	voltage drop to 90%, turn-off time measure from AC input turn-off to output			
		60W	22.8	62.8	voltage drop to 10%			
		30W	≥85%	86% typ.	230VAC, Rated Load, at output terminals, see graphs			
	Efficiency	60W	≥86%	87% typ.	output to minute, coo grapm			
Protection	Short Circuit Protection	Auto Recovery						
	Over Current Protection	120%-180%lo, Auto Recovery						
	Over Voltage Protection	110%-150%Vo, Auto Recovery						
	Insulation voltage	I/P to O/P,3KVac/5mA/1min						
	Insulation resistance	>100M ohm @ 500VDC						
	Leakage current	I/P to O/P < 250µA						
Environmen	Ta/Operation Temperature	-25+45℃						
t	Ts/Storage Temperature	-40+85℃						
	Tc/Enclosure Temperature	30W		<b>80℃</b>				
	For Safety	60W 90℃		90℃	)°C			
	Humidity	5% 85%RH						
	Atmosphere	86-108KPa						
Constructio	Connection Method	Termina	al					
n		Input	Input		1 terminal block			
	Cable Terminals	Output 30W/60W 1 terminal block						
	Installation		Independent					
	Input Wire Cross Section		1²-1.5 mm²					
		30W			5mm²-1.5 mm²			
	Output Wire Cross Section	60W 0.75mm			nm²-1.5 mm²			



	Output Cable Length	Max. 3N					
		Input		2.2-4mm or 9.5-10.5mm			
	Cable diameters range	Output & Dimming		2.2-4mm			
	Dimension	30W/60\	N	300*30*16mm (L*W*H)			
Standards	Certification	CE, ENE	EC, SAA				
	Safety Standards	EN6134	EN61347-2-13:2014/A1:2017,EN62384:2006/A1:2009, EN61347-1:2015,AS61347.2.13:2018, AS/NZS 61347.1:2016 Inc A1				
	EMC Standards	EN IEC	EN IEC 55015:2019,EN IEC 55015:2019/A11:2019 EN IEC 61000-3-2:2019,EN61547:2009, EN 61000-3-3:2013/A1:2019				
	Performance	EN6238	EN62384				
	Surge	L-N:2KV	L-N:2KV				
Others	RoHS	2011/65	2011/65/EU				
	MTBF	≥250KH	≥250KHours,Ta=25°C(MIL-HDBK-217F)				
	Audible Noise	<24dB @	<24dB @ 10cm distance, 20dB background				
	Life Time	30W	≥80K Hrs	@220VAC full load oog graphs			
		60W	≥65K Hrs	─@230VAC , full load, see graphs. End of Life: Failure Rate<10%.			
	Warranty	5years	5years -				

#### Remark:

All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.

LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

Output ripple should be measured at the output end which has with 0.1uF/50V ceramic capacitance and 47uF/50V Aluminum capacitance connected in parallel. Measured using oscilloscope with bandwidth limited to 20MHz.

2. Connected quantities of different current Breaker

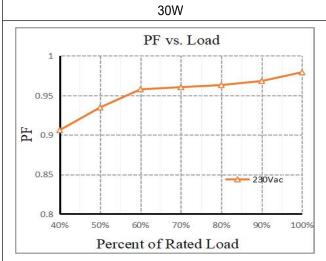
SVS-24030VG2 Connected quantities of different current Breaker									
TYPE	current (A)	10	13	16	20	25	Input Voltage	Inrush Current	Time
''' -	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²	input voltage	<25A	Time
	TYPE B		35	44	55	68			
TYPE C		44	57	70	87	109	@230VAC	22	310us
TYPE D		70	91	112	140	175			

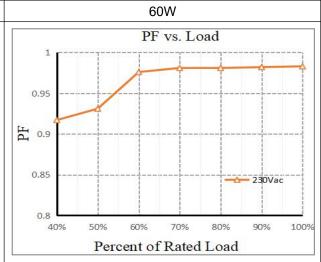
SVS-24060VG2 Connected quantities of different current Breaker									
TYPE current (A)		10	13	16	20	25	Input Voltage	Inrush Current <30A	Time
'''	Installation wire diameter		2.5mm²	2.5mm²	4mm²	4mm²	input voitage		
	TYPE B	23	30	37	46	58			
TYPE C		37	48	59	74	92	@230VAC	26	220us
TYPE D		59	77	95	118	148			



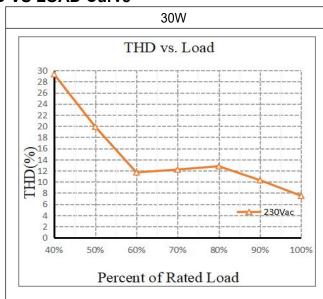
### 3. Graph

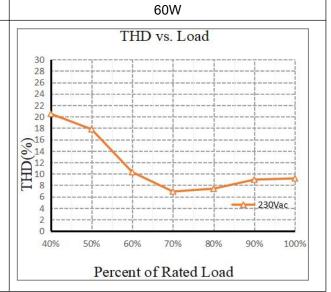
#### **PF VS LOAD Curve**



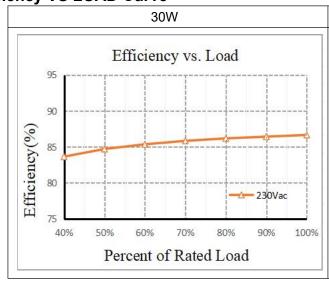


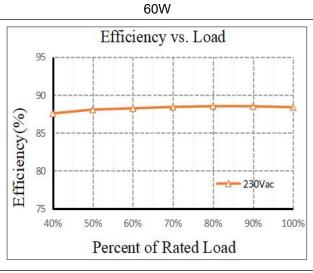
#### **THD VS LOAD Curve**





### **Efficiency VS LOAD Curve**

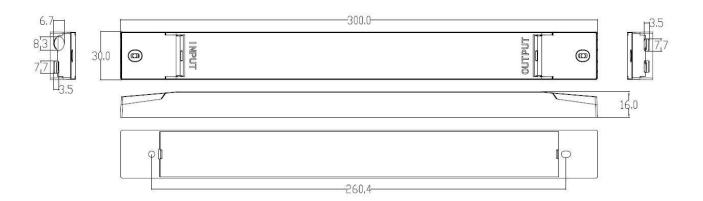






## 4. Dimension (Unit: mm)

### SVS-24030VG2 & SVS-24060VG2:





### 6. Packing information

Packing way	Model	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
With white box	SVS-24030VG2		45	0.143	6.44	6.96
and manual	SVS-24060VG2	450*240*200	45	0.23	10.35	10.87
Without white	SVS-24030VG2	400 Z40 Z00	75	0.125	9.38	10.08
box and manual	SVS-24060VG2		75	0.21	15.75	16.45

#### 7. 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.)

#### 8. REVISION HISTORY

DATE	REV.	REMARK
	V1.0	Initial release.