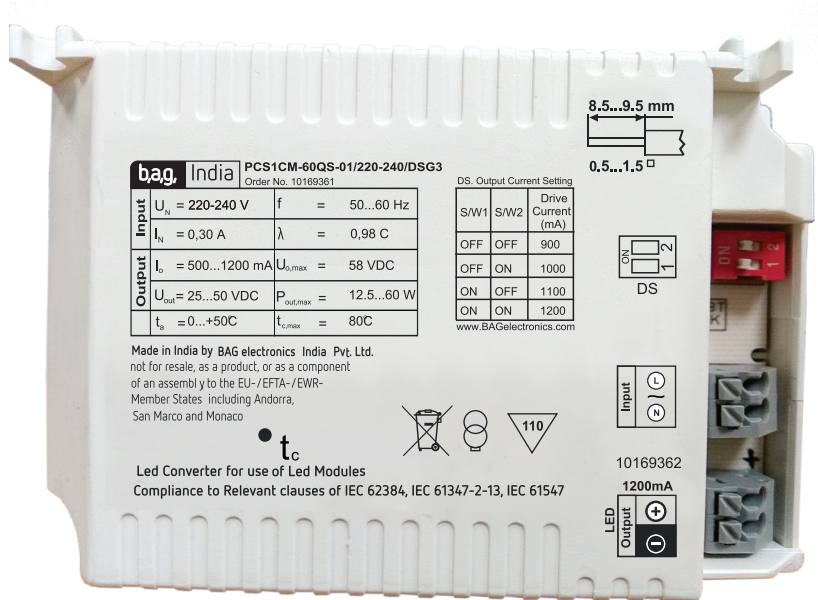


PCS - DSG3

Constant current control gear, 1-channel, non-dimmable



ECG versions

*Photograph is for viewing purpose. Technical data not to be drawn from this picture

Order no.	Model	Variant
10169361	PCS1CM-60QS-01/220-240/DSG3	10169362 60W 1200mA
		10169365 40W 800mA
10169368	PCS1CM-25QS-01/220-240/DSG3	10169369 22W 450mA

Performance characteristics

- Non-dimmable 1-channel ECG for constant current operation of LED modules
- High efficiency >88 % (100 % load)
- Input voltage 180 - 300V
- Mains overvoltage protection upto 440 VAC
- Surge protection upto 4KV
- For use in combination with luminaires of protection class I
- ECG extensively protected against abnormal operating conditions at the output e.g. short-circuit, open circuit or overload.
- Conformance with international regulations, regarding safety and operation.
- Nominal service life: 30,000 h with failure rate < 10% and operation at $t_c=t_{c,max}$
- Mains Overvoltage Shutdown above 300V

Applications

- Office
- Shops

Markings



PCS - DSG3

Constant current control gear, 1-channel, non-dimmable Gen-3

General Technical Data

Mains voltage supply	
Rated voltage range	220 - 240 V
Rated frequency	50...60 Hz
Max. admissible input voltage range (AC)	180 - 300V
Total harmonic distortion (THD)	< 10%
Output data	
Constant current	
Output current tolerance	+/- 10 %
Max. ripple output current (With LED load)	+/- 30 %
Galvanic separation to mains input	Basic Insulation (1.5kV)
Interfaces and dimming operation	
Dimming Interface depending on ECG model	None
Starting time	
Time to 100% luminous flux	< 1 sec
Power factor	
230 V (at full load)	> 0.95
Efficiency (Typ.)	
Full load	> 88%
Protection functions	
Open-circuit operation	<60VDC
Output short circuit operation	Ok
Connection Terminals	
	For solid or stranded wire
Type	Push terminal
Wire cross section	0.5 mm ² - 1.5 mm ²
Wire stripping length	8.5 mm - 9.5 mm
Wire lengths	
Max. wire length to LED module	< 2 m
Thermal protected device	
Max.surface temperature acc. EN 61347-2-13/C5C	+110° C
Degree of protection	
Degree of protection	IP 20
Surge Level	4KV

Temperatures (operation)

Model	Ambient (t _a)	Case (t _c)
PCS1CM-60QS-01/220-240/DSG3	0 °C ... + 50°C	max. + 80 °C
PCS1CM-25QS-01/220-240/DSG3	0 °C ... + 50°C	max. + 70 °C

PCS - DSG3

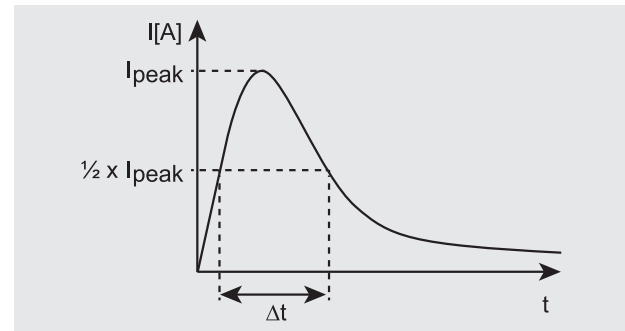
Constant current control gear, 1-channel, non-dimmable

Circuit breaker / Inrush current

Model	typ. I _{peak} / Δt	No. of ECG at single-pole circuit breakers				
		LS-Typ	10 A	16 A	20 A	25 A
10169361	40 A/38 us	B	25	40	50	62
		C	25	40	50	62
10169368	32 A/47 us	B	47	75	94	117
		C	47	75	94	117

- Data for U_{supply} = 230 VAC, mains impedance = 1 Ω
- In case of multi-polar CB the maximum number is reduced by 20 %
- The max. number may differ depending on CB manufacturer. Please consider the specifications of the manufacturer.
- Basically, CB with C-characteristics are recommended to be used in lighting groups.

Typical current - time profile when switching on



Operating data

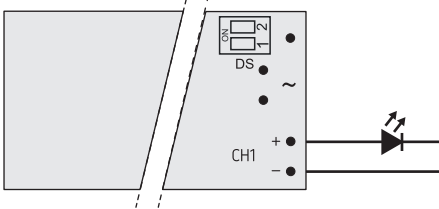
Model	Variant no.	Switch Position SW1 - SW2	Loading	Input current ¹⁾ A	Input power ¹⁾ W	Power factor ¹⁾	ATHd %	ECG efficiency ¹⁾ %	Output currents mA	Output voltage VDC	Total output power W
10169361	10169362	ON - ON	100%	0.31	68	0.95	10%	88%	1200	50	60
			50%	0.16	34	0.95	10%	88%	1200	25	30
		ON - OFF	100%	0.29	63	0.95	10%	88%	1100	50	55
			50%	0.14	31	0.95	10%	88%	1100	25	27.5
		OFF - ON	100%	0.26	57	0.95	10%	88%	1000	50	50
			50%	0.13	28	0.95	10%	88%	1000	25	25
	OFF - OFF	100%	0.23	51	0.95	10%	88%	900	50	45	
		50%	0.12	26	0.95	10%	85%	900	25	22.5	
	10169365	ON - ON	100%	0.21	45	0.95	10%	88%	800	50	40
			50%	0.10	23	0.95	10%	85%	800	25	20
		ON - OFF	100%	0.18	40	0.95	10%	88%	700	50	35
			50%	0.09	20	0.95	10%	85%	700	25	17.5
		OFF - ON	100%	0.16	34	0.95	10%	88%	600	50	30
			50%	0.08	17	0.95	10%	85%	600	25	15
OFF - OFF	100%	0.13	28	0.95	10%	88%	500	50	25		
	50%	0.07	14	0.95	10%	85%	500	25	12.5		
10169368	10169369	ON - ON	100%	0.12	26	0.95	10%	85%	450	50	22.5
			50%	0.06	14	0.95	15%	80%	450	25	11.25
		ON - OFF	100%	0.09	21	0.95	10%	85%	350	50	17.5
			50%	0.05	11	0.95	15%	80%	350	25	8.75
		OFF - ON	100%	0.07	15	0.95	10%	85%	250	50	12.5
			50%	0.04	8	0.95	15%	80%	250	25	6.25
		OFF - OFF	100%	0.04	9	0.95	15%	80%	150	50	7.50
			50%	0.02	5	0.95	20%	80%	150	25	3.75

All specifications with 230 VAC nominal operation and 100 % load

PCS - DSG3

Constant current control gear, 1-channel, non-dimmable

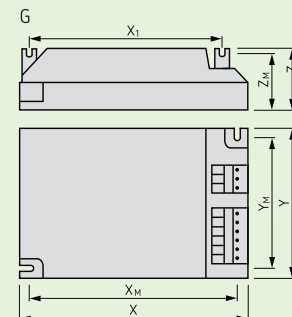
Wiring diagrams



Logistic data

Model	Order no.	Weight ECG kg
PCS1CM-60QS-01/220-240/DSG3	10169361	0.18
PCS1CM-25QS-01/220-240/DSG3	10169368	0.120

Case drawing



Dimensions

Order no.	Length X	Width Y	Height Z	Hole spacing X _m (length direction)		Hole spacing Y _m (width direction)	Hole spacing Z _m (height direction)
	mm	mm	mm	mm	X ₁ / X _m	mm	mm
10169361	103	67	30		83.5 / 94	57	28
10169368	103	67	30		83.5 / 94	57	28

Conformance with regulations (Compliance to relevant clauses)

IS15885(PART- 2/SEC 13)

EN 61347-1 General and safety requirements

EN 61347-2-13 Particular requirement for DC or AC supplied electronic control gear for LED modules

EN 62 384 Performance characteristics: DC or AC supplied electronic control gear for LED modules Module

EN 61 547 Equipment for general lighting purposes EMC immunity requirements

Environmental tests for mechanical capacity:

IEC 60068-2-6 Test Fc : vibrations (sinusoidal)

IEC 60068-2-27 Test Ea : shock and bump

IEC 60068-2-29 Test Eb : shock and bump

Quality management certified according to ISO 9001

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