

ENERGY SAVING LUMENS REGULATOR

QPS Energy Saving Lumens Regulator is design to provide cost savings to HID luminaires such as highway lightings, area lightings and car park lightings etc. The cost saving concept is basically to control the power consumption of the luminaires under different conditions such as peak and non-peak hours.

One of the unique design features of **QPS** Energy Saving Lumens Regulator is the 7 steps voltage transition system. The system allows gradual change of lamp's intensity during dimming process thus reduces distractions to human eyes. The system controls the dimming process by reducing the power gradually from initial value to its preset dimmed value within a timeframe of approximately 20 seconds per step.

Another unique feature of this equipment is that in order to prolong the life span of the lamps and the control accessories, fluctuation of voltage must be eliminated or reduced. This system is incorporated with an automatic stabilizing control to ensure the output voltage to the luminaires is stabilized at all times.



Features

- ❖ Achievable savings up to 35% depending on lamp type.
- ❖ Individual pre-selectable time period control for automatic power "ON / OFF" and energy saving mode.
- ❖ Independent phase voltage stabilizing system to ensure low maintenance cost.
- ❖ 7 steps voltage transition system to eliminate sudden intensity change of light source during dimming process.
- ❖ Built in anti moisture module for outdoor model.
- ❖ Over current protection.
- ❖ Manual bypass changeover switch for system maintenance.
- ❖ Photo sensor control for system auto "ON / OFF" (Optional feature).
- ❖ Remote manual control for "ON / OFF" and Energy Saving mode. (Optional feature).

Note:

- ❖ Special tailored to user specification is available upon request for feeder pillar connection. (Optional.)

Specifications are subject to change without prior notice.

Applicable to

- ❖ Streets and highways lighting
- ❖ Dock-yard area lighting
- ❖ Aircraft parking apron lighting
- ❖ Warehouse lighting
- ❖ Multiple floors car park lighting

Savings \$\$\$

- ❖ Improve electricity consumption
- ❖ Reduce maintenance cost

Technical Specification:

Input Voltage

- ❖ 415 / 240V ±10%.

Output Voltage (True RMS)

- ❖ 380 / 220V, 400 / 230V, 415 / 240V ±3%.

Nominal Output Regulated Voltage per Phase

- ❖ 220V, 230V, 240V.

Energy Saving Mode Output Regulated Voltage

- ❖ 195V, 205V, 215V.

Correction Speed

- ❖ 50 msec/V.

Load Power Factor

- ❖ Suitable for any power factor loads

Step To Step Transition

- ❖ 20 seconds.

Operating Temperature

- ❖ 45°C.

Operating Humidity – Non Condensing

- ❖ 90% RH

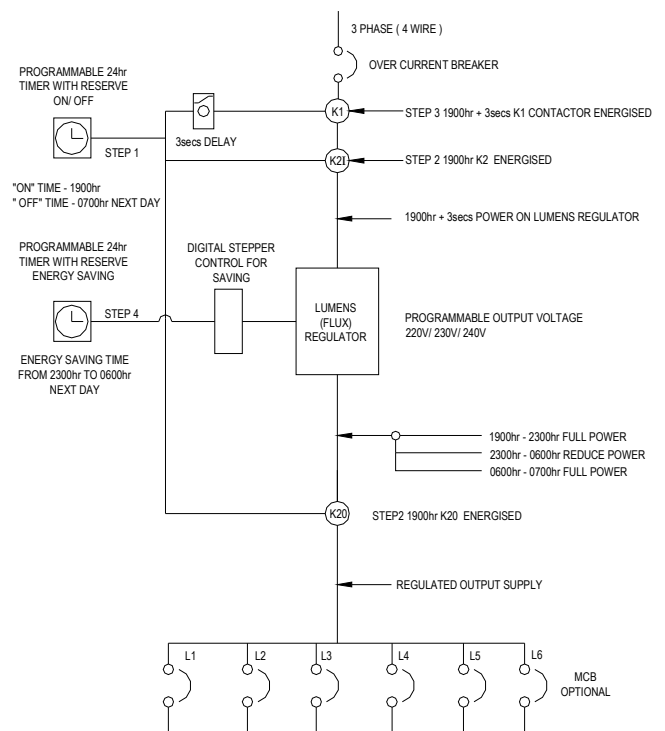
Lamp Ignition Cycle & Warm-up Time

- ❖ 4 minutes



Operation Sequence Diagram:

LUMENS (FLUX) REGULATOR NORMAL OPERATION SEQUENCE



Model	Power (KVA)	Phases	Input Voltage (Vac)	Input Voltage Range (Vac)		Output Phase Current @ 240V (A)	Output Voltage Stability	Indoor casing Dimension (mm)			(Kg)	Outdoor casing Dimension (mm)			(Kg)
				Min V	Max V			H	W	D		H	W	D	
ES 10	10	3 + N	415	216	264	14	±3%	1015	570	500	80	900	480	550	80
ES 15	15	3 + N	415	216	264	21	±3%	1195	570	500	88	900	480	550	86
ES 20	20	3 + N	415	216	264	28	±3%	1195	570	500	98	970	570	600	102
ES 25	25	3 + N	415	216	264	35	±3%	1195	570	500	105	970	570	600	105
ES 30	30	3 + N	415	216	264	42	±3%	1195	570	500	113	970	570	600	112
ES 35	35	3 + N	415	216	264	49	±3%	1195	570	500	120	970	570	600	118
ES 40	40	3 + N	415	216	264	56	±3%	1195	570	500	125	1050	650	710	126
ES 50	50	3 + N	415	216	264	69	±3%	1195	570	500	135	1050	650	710	135
ES 60	60	3 + N	415	216	264	83	±3%	1380	660	580	148	1050	650	710	152
ES 70	70	3 + N	415	216	264	97	±3%	1380	660	580	214	1050	650	710	216
ES 80	80	3 + N	415	216	264	111	±3%	1380	660	580	225	1050	650	710	226

*SC – Complete with Switch Socket

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