

QL Induction Lighting System

HF Generator 55W / 85W / 165W dimmable

US/CAN

Features

- Extremely Long Life of 100.000 hours
- High Reliability
- Instant hot and cold (re) start
- Operates in hot and cold environments / Amalgam control
- Dimmable to 50%
- $L_{70} > 70.000$ hrs
- Power Factor Correction included
- Limited inrush current
- Output Power Stabilized
- Protections
 - Open/short output
 - Thermal
 - Lamp end of life
- Extended protection against mains faults and deviations

Applications

For applications where maintenance costs are high;

- Street Lighting
- Bridges and Tunnels
- Freezers
- Industrial Lighting
- General Lighting (Big Box Retail, Shopping Mall)
- Hard-to-reach applications



General Characteristics

Lifetime system	100.000 hrs at $T_c=72^{\circ}\text{C}$ (162°F)
Efficiency	$> 90\%$, max. load
Cooling	convection, dependent on System set-up, heat sinking required
T_{case}	82°C max. (180°F max.) 72°C for full life (162°F for full life)
Storage Temperature	-40°C to $+85^{\circ}\text{C}$ (-40°F to $+185^{\circ}\text{F}$)
Operating Ambient Temperature	-40°C to $+55^{\circ}\text{C}$ (-40°F to $+131^{\circ}\text{F}$)
Operating Position	Universal
Safety Approvals	UL935
EMC Approvals	Complies with all international EMC requirements

Electrical Characteristics

Input (2 versions)	100 - 120 Vac / Vdc 208 - 277 Vac / Vdc
Input line Frequency	45 - 66 Hz
Power Factor	> 0.92
Current THD	ANSI C82.11-2002
Output Voltage	130 - 220 Vac
Switching Frequency	$2.67\text{ MHz} \pm 1\%$
Current nom.	Depending on lamp
Ignition	1.2 kVp
Dimming	EN60929, 1 - 10 Vdc analog 50 - 100% output power

Product Dimensions

Dimensions 55/85W	152 x 76 x 41 mm (6.0 x 3.0 x 1.6 inch)
Dimensions 165W	190 x 112 x 41 mm (7.5 x 4.4 x 1.6 inch)
Connectors	Cage clamp terminals
Net Weight 55/85W	0,580 kg (1.3 lb)
Net Weight 165W	0,703 kg (1.5 lb)

Specifications subject to change without notice (RH20110606)



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GENERATORS

Part Nr. Nedap	Part Nr. QL	Description
9561366	GE0551200I	GENERATOR QL-HF 55W/115V DIM
9561340	GE0851200I	GENERATOR QL-HF 85W/115V DIM
9560823	GEI651200I	GENERATOR QL-HF 165W/115V DIM
9561358	GE0552300I	GENERATOR QL-HF 55W/230V DIM
9561226	GE0852300I	GENERATOR QL-HF 85W/230V DIM
9560831	GEI652300I	GENERATOR QL-HF 165W/230V DIM
9561463	GE05512000	GENERATOR QL-HF 55W/115V N-DIM
9561447	GE08512000	GENERATOR QL-HF 85W/115V N-DIM
9561480	GEI6512000	GENERATOR QL-HF 165W/115V N-DIM
9561455	GE05523000	GENERATOR QL-HF 55W/230V N-DIM
9561439	GE08523000	GENERATOR QL-HF 85W/230V N-DIM
9561471	GEI6523000	GENERATOR QL-HF 165W/230V N-DIM

POWER COUPLERS

Part Nr. Nedap	Part Nr. QL	Description
9904417	PC05500000	POWERCOUPLER QL 55W
9904425	PC08500000	POWERCOUPLER QL 85W
9869476	PC16500000	POWERCOUPLER QL 165W

QL LAMPS

Part Nr. Nedap	Part Nr. QL	Description	Bulb	Finish	Color Code	Color Designation	CCT [K]	CRI
3063020	QL05500030	QL Lamp 55W/830 Twist Base ISL	P26	Coated	830	Warm White	3000	80
3063046	QL05500050	QL Lamp 55W/850 Twist Base ISL	P26	Coated	850	Daylight	5000	80
3063062	QL08500030	QL Lamp 85W/830 Twist Base ISL	P35	Coated	830	Warm White	3000	80
3063097	QL08500050	QL Lamp 85W/850 Twist Base ISL	P35	Coated	850	Daylight	5000	80
3063127	QLI6500030	QL Lamp 165W/830 Twist Base ISL	A4I	Coated	830	Warm White	3000	80
3063135	QLI6500040	QL Lamp 165W/840 Twist Base ISL	A4I	Coated	840	Cool White	4000	80
3063143	QLI6500050	QL Lamp 165W/850 Twist Base ISL	A4I	Coated	850	Daylight	5000	80