

STR Streetlight Series

The "Future Proof" Streetlight

Always On The Leading Edge

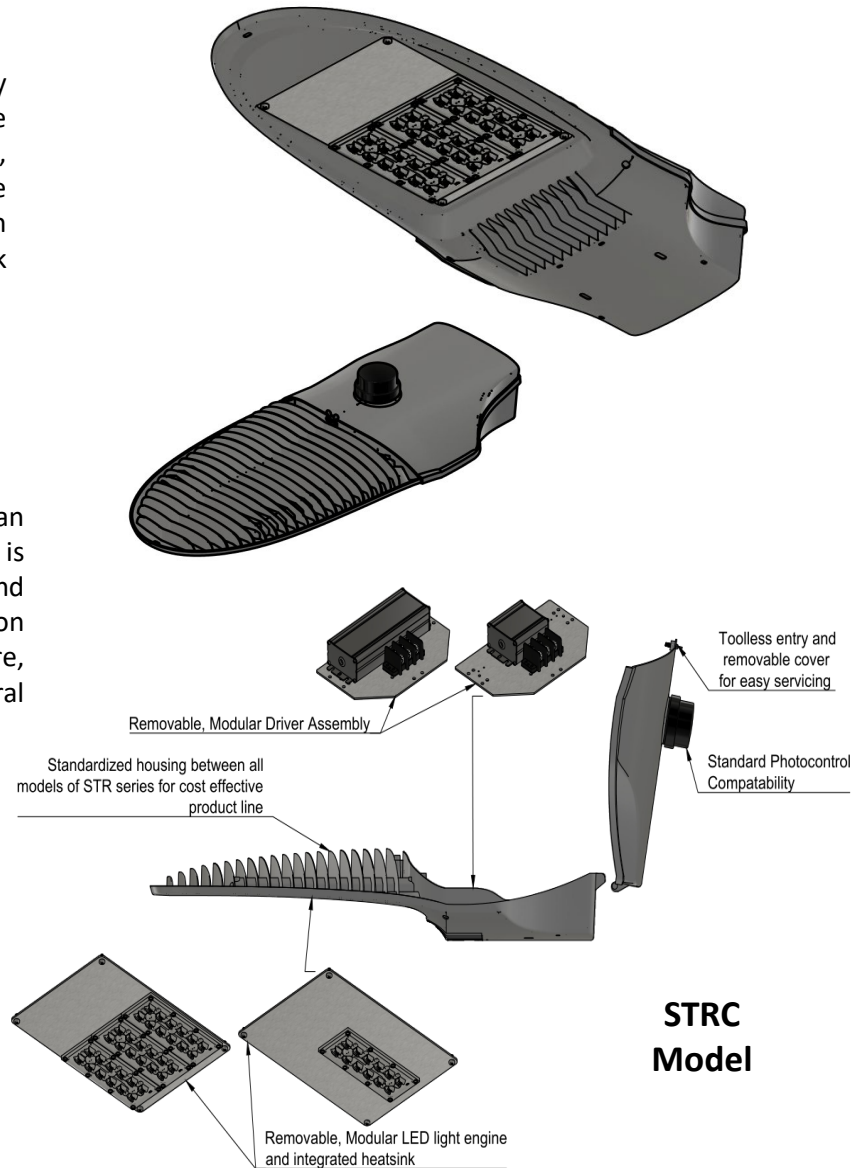
The PLG STR Series allows for the simple, easy upgrade of the LED light engine without changing the form factor or aesthetics of the fixture. Essentially, fixtures are serviced / upgraded without replacing the entire fixture. This yields the best economics for an owner post-cashflow projections, or after the payback period is met.

Never Become Obsolete

LED Technology is improving at a rate faster than specifiers can keep up. By the time a LED fixture is thoroughly vetted and incorporated into standards and specifications, it is already dated technology and soon to become obsolete. With the PLG STR Series luminaire, the same specified fixture can last through several generations of LED advancement.

Easily Replaceable Light Engine

The light engine of the STR series streetlight is contained in a single board that is replaced with approximately 4 screws (depending on model) and a quick connect electrical connection. This allows for the MOST economical upgrade of the LED light engine after the effect life of the LED has passed (100,000 hours)



Patent Pending

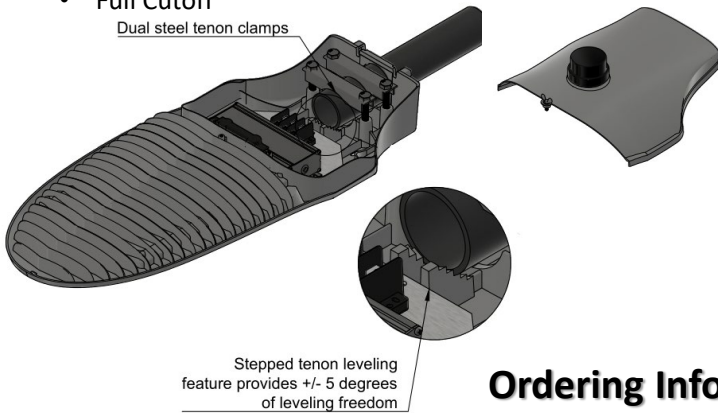


Performance

- 100,000+ Hour lamp life per the Energy Star TM-21 Calculator.
- -30° C to +50° C Ambient Temperature Rating
- Standard 5 Year Warranty
- Optional 10 Year Warranty
- Luminaire Efficacy up to 135 Lumens / Watt

Optics

- White light color available from 2.7K to 5K. 70 and 80 CRI packages available
- Standard IESNA Distributions available, as well as custom modified distributions.
- IP66 Rated lenses, made from UV resistant and ultra clear PMMA
- BUG Rating of 1-0-1 (Type II 700mA)
- Full Cutoff



Electrical

- Standard accepts range of line voltages between 120V to 277V AC
- Optional High Voltage (277V to 480V) Input
- THD < 20%
- PF > .9
- Standard Surge Protection of 6kV
- Optional Surge Protection of 20kV/10kA
- Optional 7-Pin Photocell Receptacle

Mechanical

- Light Engine Plate made from rolled Aluminum 5052 Alloy for superior corrosion resistance and heat sinking compared to cast aluminum
- Replaceable and serviceable module construction
- Quick connect terminals for line side connections
- Standard 2" slip fitter mounting, with leveling adjustment

Wireless and Controls

- Compatible with wireless photocell nodes
- Standard programable driver, with lifetime depreciation correction and time of day dimming
- Optional DALI smart driver for integral wireless capabilities
- Standard 0-10V dimming capabilities
- Standard Auxiliary 12V DC Power Supply

Ordering Information:

Example: PLG-STR-C-02-II-50-55-700

Brand	Series	Fixture Housing Type	Number of Modules	Lens Distribution	CCT	Nominal Wattage	Drive Current	Options
PLG	STR	C	01	II (Type II)	50 (5000K)	27	700	HV (High Voltage - 480V)
			02	III (Type III)	40 (4000K)	55		SP (Surge Protector)
			03	IV (Type IV)	30 (3000K)	85		SH (Backlight Shield)
			04	V (Type V Spot)	27 (2700K)	108		Dark Bronze Finish
			05	Vn (Type V Area)	<i>*Only 27 & 30 are IDA</i>	135		White Finish
			06		<i>Approved*</i>	164		Custom Finish
						42	1000	DALI Driver
						81		10 Year Warranty
						118		
						157		
						197		
						236		

Specifications @ 700 mA:

BRAND	SERIES	NO. OF LED MODULES	DISTRIBUTION	CCT	INPUT POWER (W)	INITIAL LUMENS	EFFICACY (LM/W)	INPUT VOLTAGE (V-AC)	INPUT CURRENT (A-AC)	POWER FACTOR	THD
PLG	STR	1	II	27	27	2898	107	100V 120V 240V 208V 277V	0.26 0.21 0.11 0.07 0.05	0.90	17.0%
				30		3360	124				
				40		3610	134				
			III	50		3632	135				
				27		2709	100				
				30		3324	123				
			IV	40		3572	132				
				50		3594	133				
				27		2767	102				
			V	30		3360	124				
				40		3610	134				
				50		3632	135				
			Vn	27		2915	108				
				30		3360	124				
				40		3610	134				
				50		3632	135				
				27		2915	108				
				30		3360	124				
PLG	STR	2	II	27	55	5797	105	100V 120V 240V 208V 277V	0.56 0.46 0.23 0.15 0.12	0.93	10.0%
				30		6719	122				
				40		7221	131				
			III	50		7264	132				
				27		5418	99				
				30		6648	121				
			IV	40		7144	130				
				50		7187	131				
				27		5535	101				
			V	30		6719	122				
				40		7221	131				
				50		7264	132				
			Vn	27		5830	106				
				30		6719	122				
				40		7221	131				
				50		7264	132				
				27		5830	106				
				30		6719	122				
PLG	STR	3	II	27	85	7264	132	100V 120V 240V 208V 3F 277V 3F	0.83 0.69 0.34 0.23 0.17	0.96	8.0%
				30		8695	102				
				40		10079	119				
			III	50		10831	127				
				27		10896	128				
				30		8127	96				
			IV	40		9372	117				
				50		10716	126				
				27		10781	127				
			V	30		8302	98				
				40		10079	119				
				50		10831	127				
			Vn	27		10896	128				
				30		8744	103				
				40		10079	119				
				50		10831	127				
				27		10896	128				
				30		8744	103				
PLG	STR	4	II	27	108	11593	107	100V 120V 240V 208V 277V	1.07 0.89 0.45 0.30 0.22	0.92	14.0%
				30		13439	124				
				40		14441	134				
			III	50		14529	135				
				27		10836	100				
				30		13296	123				
			IV	40		14288	132				
				50		14374	133				
				27		11070	102				
			V	30		13439	124				
				40		14441	134				
				50		14529	135				
			Vn	27		11659	108				
				30		13439	124				
				40		14441	134				
				50		14529	135				
				27		11659	108				
				30		13439	124				
PLG	STR	5	II	27	135	14492	107	100V 120V 240V 208V 277V	1.35 1.13 0.56 0.37 0.28	0.97	5.0%
				30		16799	124				
				40		18052	134				
			III	50		18161	135				
				27		13545	100				
				30		16620	123				
			IV	40		17860	132				
				50		17968	133				
				27		13837	102				
			V	30		16799	124				
				40		18052	134				
				50		18161	135				
			Vn	27		14574	108				
				30		16799	124				
				40		18052	134				
				50		18161	135				
				27		14574	108				
				30		16799	124				
PLG	STR	6	II	27	164	18161	135	100V 120V 240V 208V 277V	1.64 1.37 0.68 0.45 0.34	0.94	9.0%
				30		20158	123				
				40		21662	132				
			III	50		21793	133				
				27		16254	99				
				30		19944	122				
			IV	40		21432	131				
				50		21561	131				
				27		16604	101				
			V	30		20158	123				
				40		21662	132				
				50		21793	133				
			Vn	27		17489	107				
				30		20158	123				
				40		21662	132				
				50		21793	133				
				27		17489	107				
				30		20158	123				

Specifications @ 1000 mA:

BRAND	SERIES	NO. OF LED MODULES	DISTRIBUTION	CCT	INPUT POWER (W)	INITIAL LUMENS	EFFICACY (LM/W)	INPUT VOLTAGE (V-AC)	INPUT CURRENT (A-AC)	POWER FACTOR	THD
PLG	STR	1	II	27	42	3939	94	100V 120V 240V 208V 277V	0.43 0.36 0.18 0.12 0.09	0.98	10.0%
				30		4247	101				
				40		4564	109				
				50		4592	109				
				27		3927	94				
				30		4202	100				
			III	40		4515	108				
				50		4543	108				
				27		3932	94				
				30		4247	101				
				40		4564	109				
				50		4592	109				
			IV	27		3948	94				
				30		4247	101				
				40		4564	109				
				50		4592	109				
				27		3948	94				
				30		4247	101				
			V	40		4564	109				
				50		4592	109				
				27		3948	94				
				30		4247	101				
				40		4564	109				
				50		4592	109				
Vn	27	3948	94								
	30	4247	101								
	40	4564	109								
	50	4592	109								
	27	3948	94								
	30	4247	101								
PLG	STR	2	II	30	81	8494	105	100V 120V 240V 208V 277V	0.90 0.68 0.34 0.23 0.17	0.95	8.0%
				40		9128	113				
				50		9183	113				
				27		7574	94				
				30		8404	104				
				40		9031	111				
			III	50		9085	112				
				27		7614	94				
				30		8494	105				
				40		9128	113				
				50		9183	113				
				27		7835	97				
			IV	30		8494	105				
				40		9128	113				
				50		9183	113				
				27		7835	97				
				30		8494	105				
				40		9128	113				
			V	50		9183	113				
				27		11687	99				
				30		12741	108				
				40		13692	116				
				50		13775	117				
				27		11033	94				
III	30	12606	107								
	40	13546	115								
	50	13628	115								
	27	11159	95								
	30	12741	108								
	40	13692	116								
IV	50	13775	117								
	27	11033	94								
	30	12606	107								
	40	13546	115								
	50	13628	115								
	27	11159	95								
V	30	12741	108								
	40	13692	116								
	50	13775	117								
	27	11753	100								
	30	12741	108								
	40	13692	116								
Vn	50	13775	117								
	27	11753	100								
	30	12741	108								
	40	13692	116								
	50	13775	117								
	27	15581	99								
PLG	STR	4	II	30	157	16989	108	100V 120V 240V 208V 277V	1.46 1.34 0.67 0.45 0.34	0.94	10.0%
				40		18256	116				
				50		18366	117				
				27		14680	94				
				30		16808	107				
				40		18062	115				
			III	50		18171	116				
				27		14878	95				
				30		16989	108				
				40		18256	116				
				50		18366	117				
				27		15671	100				
			IV	30		16989	108				
				40		18256	116				
				50		18366	117				
				27		15670	100				
				30		16989	108				
				40		18256	116				
			V	50		18366	117				
				27		19477	99				
				30		21236	108				
				40		22820	116				
				50		22958	117				
				27		22958	117				
III	30	18420	94								
	40	21010	107								
	50	22577	115								
	27	22713	115								
	30	18598	94								
	40	21236	108								
IV	50	22820	116								
	27	19588	99								
	30	21236	108								
	40	22820	116								
	50	22958	117								
	27	19588	99								
V	30	21236	108								
	40	22820	116								
	50	22958	117								
	27	19588	99								
	30	21236	108								
	40	22820	116								
Vn	50	22958	117								
	27	19588	99								
	30	21236	108								
	40	22820	116								
	50	22958	117								
	27	23372	99								
PLG	STR	6	II	30	236	25483	108	100V 120V 240V 208V 277V	2.51 2.02 1.01 0.67 0.51	0.96	7.0%
				40		27384	116				
				50		27549	117				
				27		21843	93				
				30		25212	107				
				40		27093	115				
			III	50		27256	116				
				27		22317	95				
				30		25483	108				
				40		27384	116				
				50		27549	117				
				27		23505	100				
			IV	30		25483	108				
				40		27384	116				
				50		27549	117				
				27		23505	100				
				30		25483	108				
				40		27384	116				
			V	50		27549	117				
				27		23505	100				
				30		25483	108				
				40		27384	116				
				50		27549	117				
				27		23505	100				
Vn	30	25483	108								
	40	27384	116								
	50	27549	117								
	27	23505	100								
	30	25483	108								
	40	27384	116								