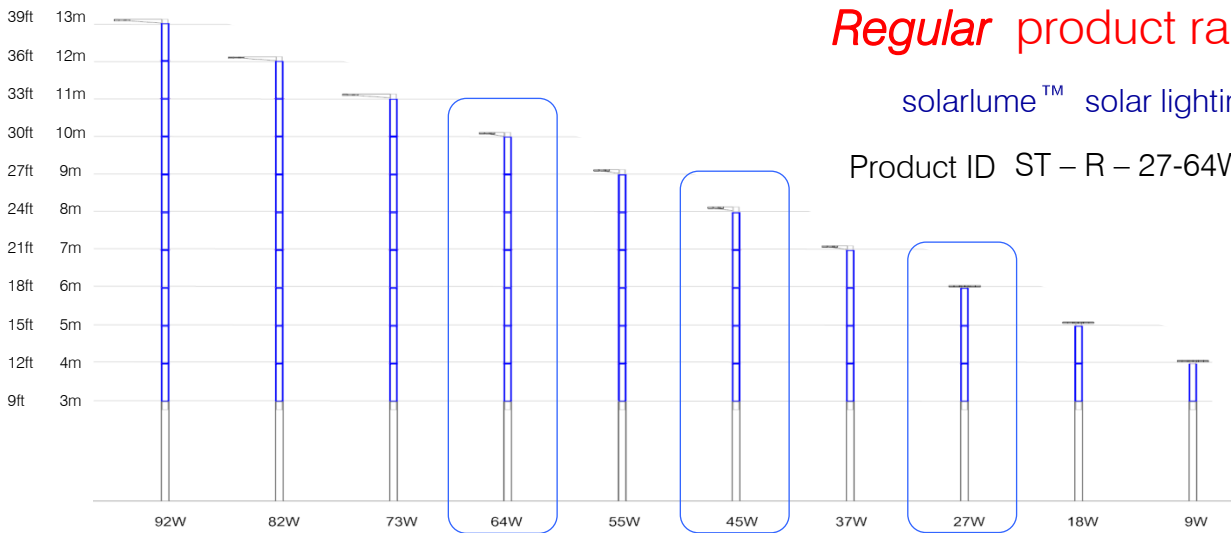


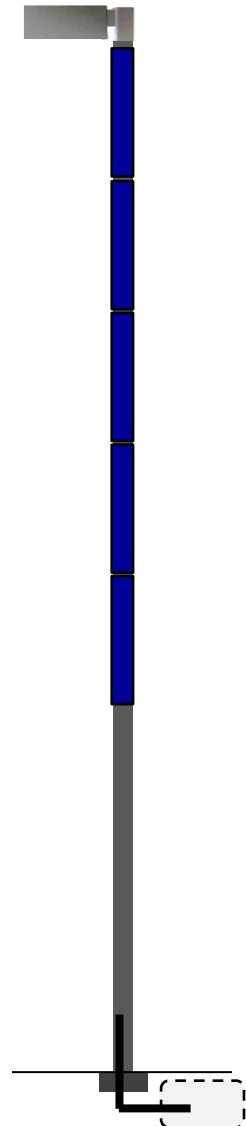
Regular product range

solarlume™ solar lighting

Product ID ST – R – 27-64W – 18 -30F



typical application categories	highways	streets parking lots	parks paths lanes
lighting power – continuous – dimming - motion sense	64W	45W	27W
lighting distribution	type 2,3,4,5 - photometric unique to luminaire choice		
lighting levels - nominal - with dimming	0.5 – 1 fc > 1 fc	(5 – 10 lux) (> 10 lux) - option with motion sensor	
system design	new or replacement infrastructure – autonomous, off-grid battery storage		
poles	standard – constant straight shafted - aluminum or steel		
PV modules	solarap™ mono crystalline solar cells - 20% cell efficiency		
luminaires	DC powered – wide range of standard options		
battery storage hours	pre-set dimming profiles – 3 - 5 days autonomy by request		
battery technologies	AGM standard or Li-ion + option - NEMA / IP rated enclosures		
battery locations	in-ground only - integrated and not visible		
smart control options	battery management system (BMS) set dimming profiles motion sensing options		
additional multi-functions	none offered with this system		
base/foundation	anchor, pre-cast concrete, direct burial, auger design depends on site specifications		
system life	LED luminaires, solarap modules expected 20+ years. system performance dependent on location and customer requirements		

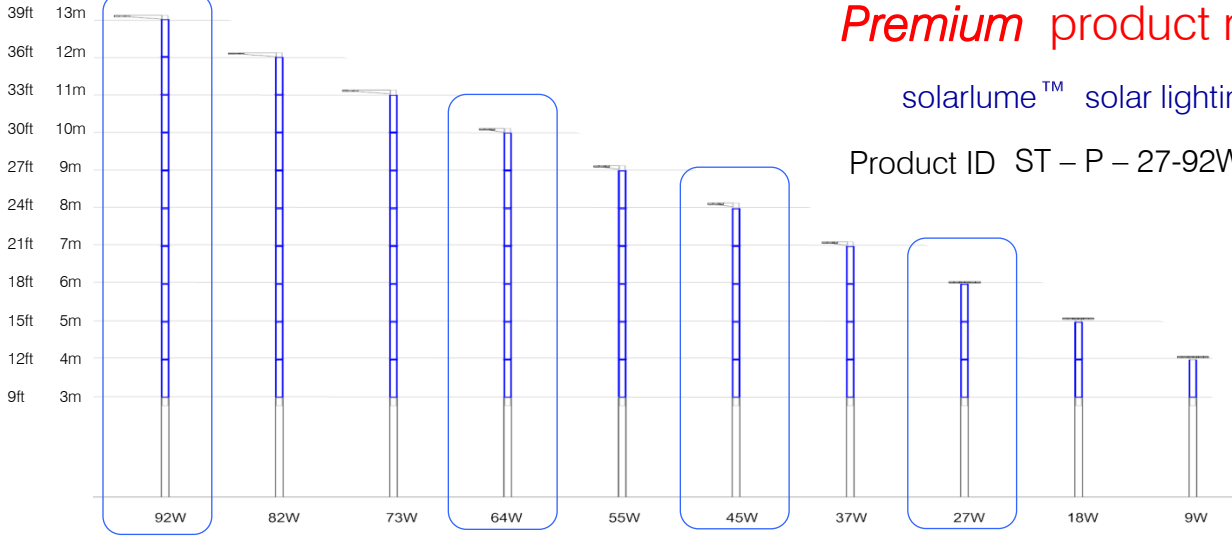


- the product chart shows a wide range of options and depth of technical performance available.
- contact solartonic to discuss your project needs,
- each solution will be specified, to customer requirements.
- all specifications subject to change.
- see full terms and conditions for system and component warranties

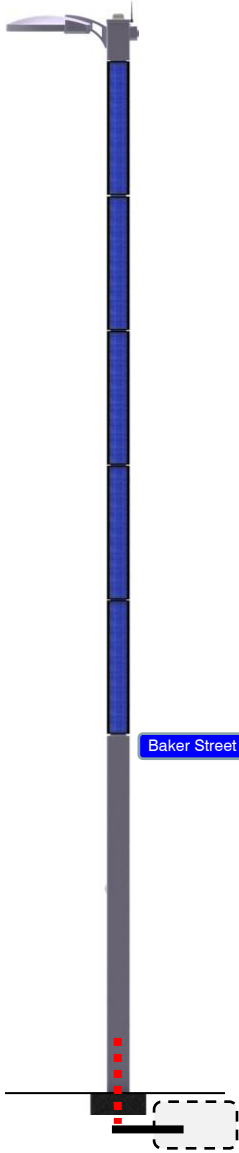
Premium product range

solarlume™ solar lighting

Product ID ST – P – 27-92W – 18 -39F



typical application categories	highways	streets parking lots	parks paths lanes
lighting power – continuous - dimming - intermittent - motion sense	64W up to 128W	45W up to 90W	27W up to 54W
lighting distribution	type 2,3,4,5 - photometric unique to luminaire choice		
lighting levels - nominal - with dimming	0.5 - 1.5 fc > 1.5 fc	(5 – 15 lux) (> 15 lux) - option with motion sensor	
system design	new or replacement infrastructure – autonomous, off-grid battery storage		
poles	solapole™ custom stepped or straight shafted - aluminum or steel		
PV modules	solarap™ mono crystalline solar cells - 20% cell efficiency		
luminaires	DC powered (off grid) – wide range of premium options		
battery storage hours	variable and adaptive dimming profiles – 3 - 5 days autonomy by request		
battery technologies	AGM standard or Li-ion + option - NEMA rated enclosures		
battery locations	in-ground AGM or in-pole Li-ion - integrated and not visible		
smart control options	battery management system (BMS) programmable dimming profiles motion sensing option		
additional multi-function options	edge lit LED street signage options available CCTV camera security Public WiFi		
base/foundation	anchor, pre-cast concrete, direct burial, auger design depends on site specifications		
system life	LED luminaires, solarap modules expected 20+ years. system performance dependent on location and customer requirements		

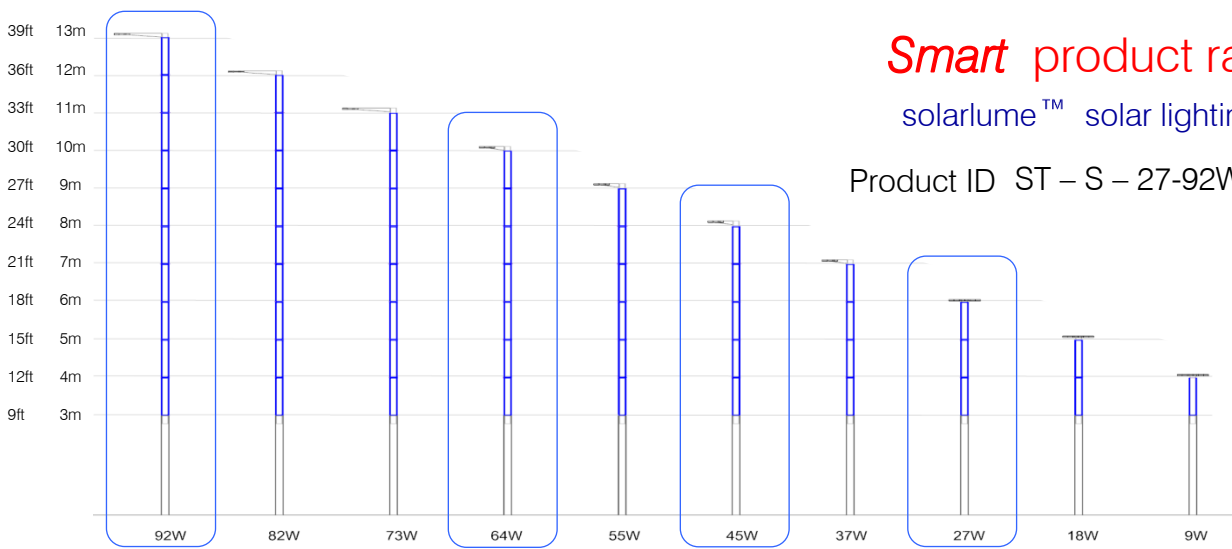


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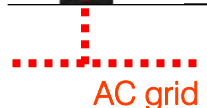
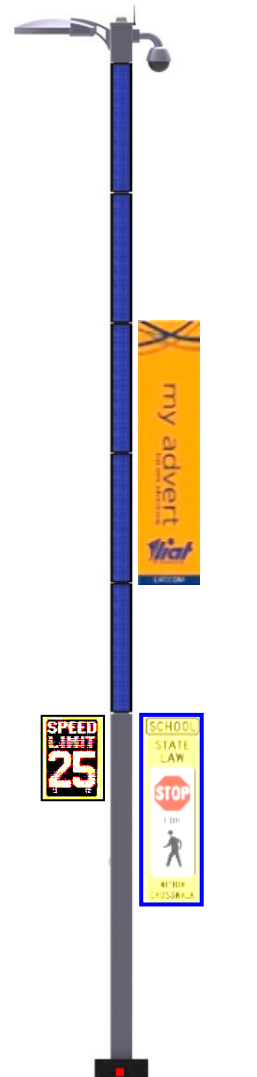
Smart product range

solarlume™ solar lighting

Product ID ST – S – 27-92W – 18-39F



typical application categories	highways	streets parking lots	parks paths lanes
lighting power – continuous – intermittent - dimming - motion sense	92W up to 200W	45W up to 90W	27W up to 54W
lighting distribution	type 2,3,4,5 - photometric unique to luminaire choice		
lighting levels - nominal - with dimming	0.5 - 1.5 fc > 1.5 fc	(5-15lux) (> 15lux)	- option with motion sensor
system design	new or replacement infrastructure – autonomous, off-grid battery storage		
poles	solapole™ custom stepped straight shafted - aluminum or steel		
PV modules	solarap™ mono crystalline solar cells - 20% cell efficiency		
luminaires	DC powered (off grid) – wide range of options		
battery storage hours	variable and adaptive dimming profiles – 3 - 5 days autonomy by request		
battery technologies	Li-ion + option - NEMA rated enclosures		
battery locations	In-pole - integrated and not visible		
smart control options	smartadapt™ autonomous or networked lighting systems battery management system (BMS) programmable dimming profiles motion sensing option wireless, remote monitoring and performance data logging hybrid AC grid power supply option		
additional multi-function options	digital LED signage and information panels CCTV surveillance and controls traffic management signals and controls wireless cellular network nodes		
base/foundation	anchor, pre-cast concrete, direct burial, auger design depends on site specifications		
system life	LED luminaires, solarap modules expected 20+ years. system performance dependent on location and customer requirements		



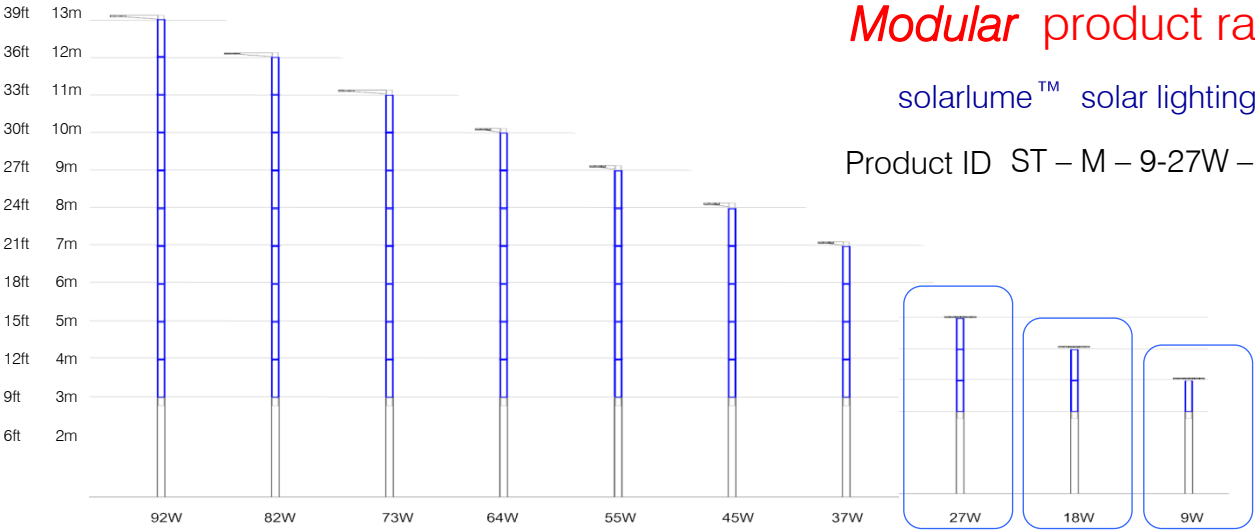
AC grid

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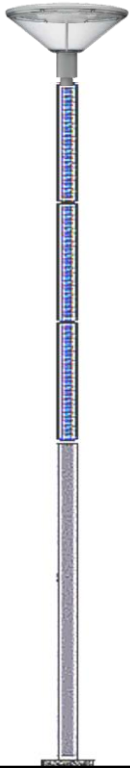
Modular product range

solarlume™ solar lighting

Product ID ST – M – 9-27W – 12-18F



typical application categories	amenity	pathways	gardens
lighting power – continuous - motion sense	27W	18W	9W
lighting distribution	type 2,3,4,5 - photometric unique to luminaire choice		
lighting levels - nominal - with dimming	0.5 – 1 fc (5-10lux) > 1 fc (> 10lux) - option with motion sensor		
system design	new or existing infrastructure – autonomous, off-grid battery storage		
poles	custom – new modular assembly - aluminum		
PV modules	solarap™ mono crystalline solar cells - 20% cell efficiency		
luminaires	DC powered (off grid) - top of post - wide range of options		
battery storage hours	limited with fixed dimming profiles – 3 - 5 days autonomy by request		
battery technologies	Li-ion - NEMA rated enclosures		
battery locations	integrated in pole and not visible		
smart control options	battery management system (BMS) set dimming profiles motion sensing option		
additional multi-functions	modular system – self assembly option		
base/foundation	anchor, direct burial, auger other options depending on site specifications		
system life	LED luminaires, solarap modules expected 20+ years. system performance dependent on location and customer requirements		

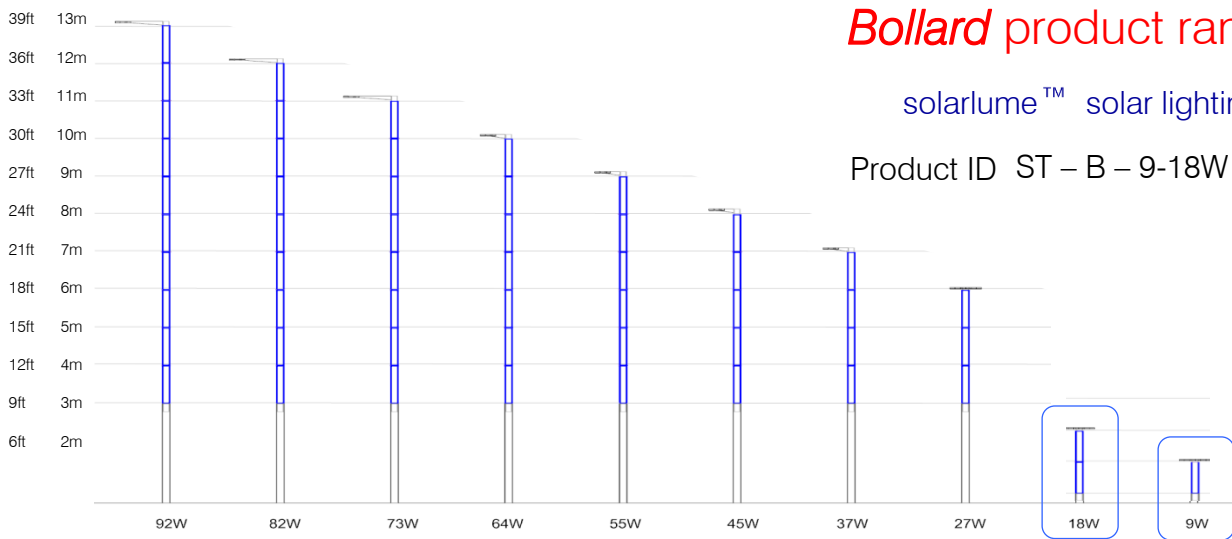


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Bollard product range

solarlume™ solar lighting

Product ID ST – B – 9-18W – 4 -7F



typical application categories		pathways	gardens
lighting power – continuous - motion sense		18W	9W
lighting distribution	type 5 - photometric unique to luminaire choice		
lighting levels - nominal - with dimming	0.5 – 1 fc > 1 fc	(5-10lux) (> 10lux)	- option with motion sensor
system design	new or existing infrastructure – autonomous, off-grid battery storage		
poles	custom – new modular assembly - aluminum		
PV modules	solarap™ mono crystalline solar cells - 20% cell efficiency		
luminaires	DC powered (off grid) - top of post		
battery storage hours	limited with fixed dimming profiles – 3 - 5 days autonomy by request		
battery technologies	Li-ion - NEMA rated enclosures		
battery locations	integrated in pole and not visible		
smart control options	battery management system (BMS) set dimming profiles motion sensing option		
additional multi-functions	modular system – pre-assembled		
base/foundation	anchor, direct burial, auger other options depending on site specifications		
system life	LED luminaires, solarap modules expected 20+ years. system performance dependent on location and customer requirements		



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