

# Street lighting

*PV solution for road applications*



**SSL****Descrizione prodotto**

Lampione ad alimentazione fotovoltaica con batterie al Piombo Gel ad alto numero di cicli (>1500 cicli con DOD 50%) e lampada a LED ad alta efficienza. Il regolatore di carica Western CO. è dotato di tutte le protezioni necessarie per mantenere efficiente e funzionale la batteria al Piombo in qualsiasi condizione, anche con 3 giorni di assenza sole. Ciò garantisce alla serie di lampioni SSL contenuti costi di manutenzione e massima funzionalità e affidabilità. Disponibile in diverse taglie di potenza lampada, batteria e modulo FV per adattarsi a installazioni in tutto il mondo.

**[eng]****Product description**

Photovoltaic powered streetlamp with high-cycle lead gel batteries (> 1500 cycles with 50% DOD) and high efficiency LED luminaire. The Western CO. charge controller is equipped with all the protections necessary to keep the Lead battery efficient and functional in any condition, even with 3 days of absence of sun. This guarantees low maintenance costs and maximum functionality and reliability to the series of SSL streetlamps. Available in different sizes of luminaire power, battery and PV module to adapt to installations all over the world.

**[fra]****Description du produit**

Lampadaire à énergie photovoltaïque avec batteries au plomb gel à cycle élevé (> 1500 cycles avec 50% de DOD) et lampe à LED à haute efficacité. Le contrôleur de charge Western CO. il est équipé de toutes les protections nécessaires pour maintenir la batterie au plomb efficace et fonctionnelle dans toutes les conditions, même avec 3 jours d'absence de soleil. Cela garantit de faibles coûts de maintenance et une fonctionnalité et une fiabilité maximales à la série de lampadaires SSL. Disponible en différentes tailles de lampes, batteries et modules photovoltaïques pour s'adapter aux installations du monde entier.

**PV tilt 50°****SSL 50****PV tilt 25°****SSL 25****Caratteristiche prodotto**

Long life (>1500 cycles 50% DOD) deep cycles Pb GEL battery



High efficiency LED lamps

**[eng]****Product features**

High efficiency MPPT technology charge controller



Flux reduction self management to prevent low battery level

**[fra]****Caractéristiques du produit**

Remote control by Bluetooth App or by 2G modem and WCloud web application



Low maintenance cost

**Lampade disponibili****[eng]** Available lamps**[fra]** Lampes disponibles

**W-Light 24N-42N**  
LED lamp



**W-Light 60N-84N**  
LED lamp

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(Maggiori informazioni - More info - Plus d'informations)

**Batterie disponibili****[eng]** Available batteries**[fra]** Batteries disponibles

**150Ah - Pb Gel**  
Battery capacity



**200Ah - Pb Gel**  
Battery capacity



**300Ah - Pb Gel**  
Battery capacity

**Monitoraggio e Controllo**

Il lampione SSL può montare il regolatore di carica SPB-LS BT con controllo remoto Bluetooth® oppure il regolatore di carica SPB-LS GSM con modem 2G con controllo a distanza attraverso applicazione web WCloud.

**[eng]****Monitoring and control**

The SSL streetlamp can mount the SPB-LS BT charge controller with Bluetooth® remote control or the SPB-LS GSM charge controller with 2G modem with remote control via the WCloud web application.

**[fra]****Surveillance et contrôle**

Le lampadaire SSL peut monter le contrôleur de charge SPB-LS BT avec commande à distance Bluetooth® ou le contrôleur de charge SPB-LS GSM avec modem 2G avec commande à distance via l'application Web WCloud.

**MPPT technology charge controller**

Also available with BLUETOOTH and GSM versions (more info pag. 54)

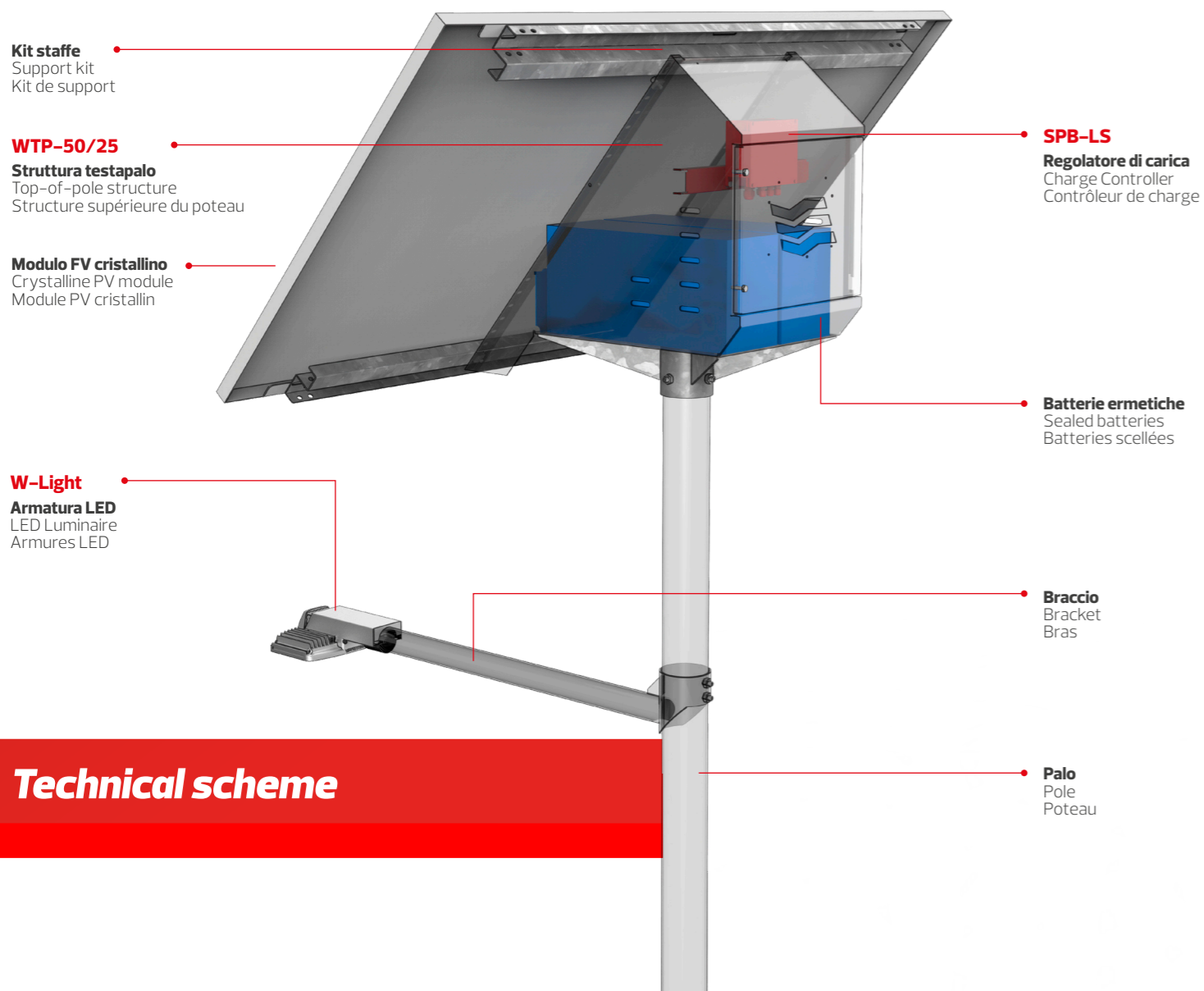


**Caratteristiche tecniche**

[eng] Technical characteristics

[fra] Caractéristiques techniques

<b>Pv module</b>	160W / 300W monocrystalline PERC. Two versions available with tilt angle 50° or 25° for optimum installation at different latitudes.
<b>Battery</b>	<b>Pb Gel</b> deep cycles >1500 (60% DOD) 12V-150Ah / 12V-200Ah / 12V-300Ah / 24V-100Ah / 24V-150Ah
<b>Charge controller</b>	Available models: SPB-LS
	SPB-LS/BT <b>Bluetooth</b> connection by smartphone or PC.
	SPB-LS/GSM <b>2G</b> modem with data monitoring through Western CO. web application (WCloud). MPPT high efficiency (> 95%)
<b>Street lamp</b>	<b>W-Light</b> Western CO. Available models: 24W 3090lm / 30W 3800lm / 36W 4360lm / 42W 5080lm / 60W 7620lm / 72W 8730lm / 84W 10160lm
<b>Color temperature – CRI</b>	4000K – CRI>70
<b>Optic</b>	Asymmetric for street and wide area lighting, suitable for <b>ME</b> class as <b>UNI 11248</b> and <b>UNI 13201-2</b> . PMMA material protected by flat glass.
<b>Light control</b>	Self-management flux reduction to maximize lamp operation during cloudy days.
<b>Mechanical parts</b>	Top of pole battery box steel made hot deep galvanized. Wind load resistance in accordance to <b>Eurocode 0-1-3</b> and production compliant to <b>EN1090-2</b> . Pole: 7m high above the ground, steel made and <b>hot deep galvanized</b> .

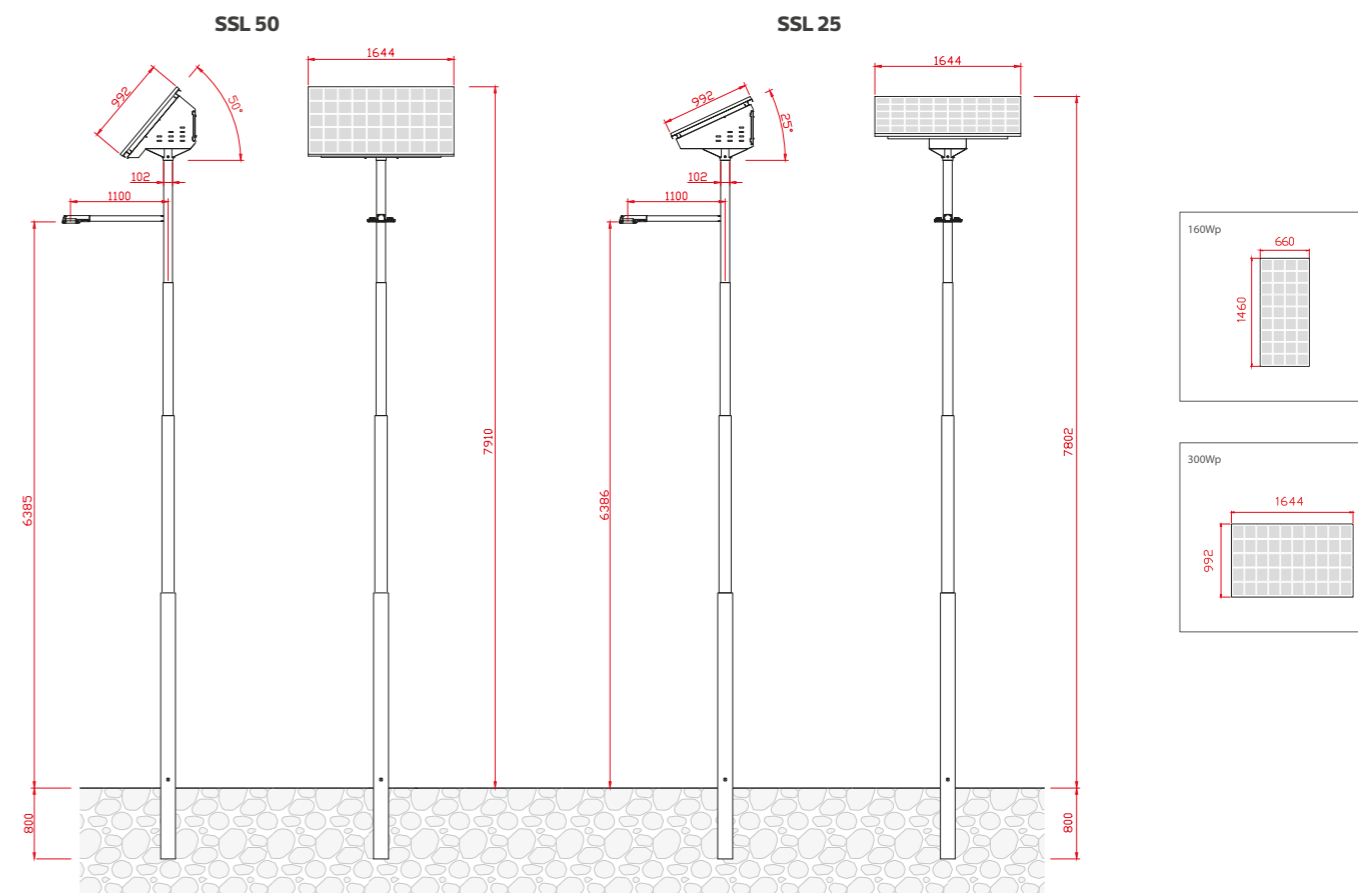


**Technical scheme**

**Dimensioni del prodotto**

[eng] Product dimensions

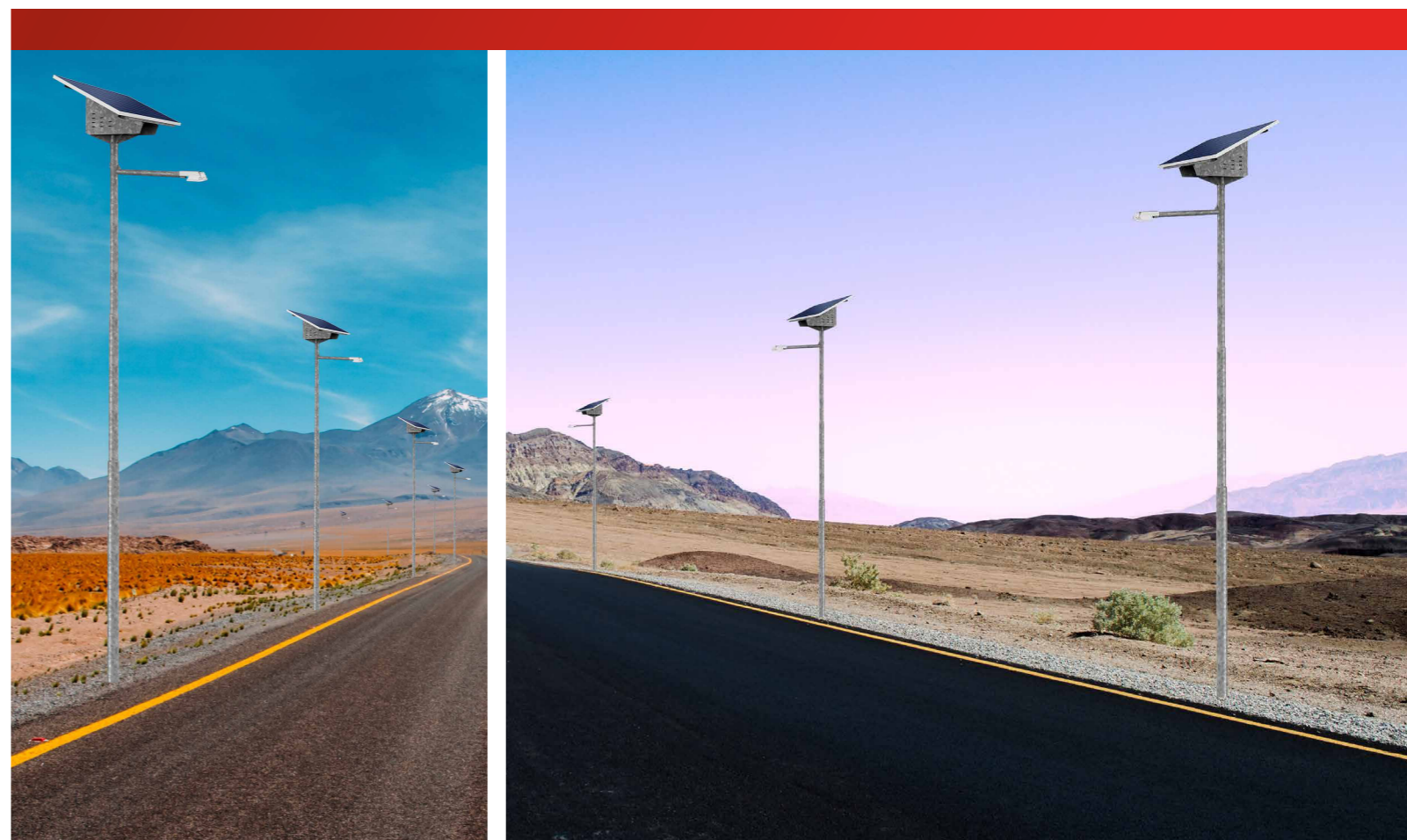
[fra] Dimensions du produit



**Realizzazioni**

[eng] Realizations

[fra] Réalisations



# SSL - Configurazione Italia

Individua la zona di installazione.

Usa il QRCode e configura il tuo lampione  
Use the QRCode and configure your streetlamp  
Utilisez le QRCode et configurez votre lampadaire



ZONA 1

ZONA 2

ZONA 3

ZONA 4

ZONA 5

SUD (Campania, Puglia, Basilicata, Calabria, Sardegna, Sicilia)

CENTRO (Toscana, Marche, Umbria, Lazio, Abruzzo, Molise)

NORD (Val d'Aosta, Piemonte, Liguria, Lombardia, Trentino Alto Adige, Veneto, Friuli Venezia Giulia, Emilia Romagna)

## Componi il codice

1 2 3 4  
SSLxx/50/SPB-xx/PVxxx/Bxxx

MODELLO	LAMPADA LED INTELLIGENTE	BOX TESTAPALO WTP	REGOLATORI DI CARICA			MODULO FV					CAPACITÀ BATTERIA
			SPB-LS	SPB-LS BT	SPB-LS GSM	ZONA 1	ZONA 2	ZONA 3	ZONA 4	ZONA 5	
<b>NORD</b> (Val d'Aosta, Piemonte, Liguria, Lombardia, Trentino Alto Adige, Veneto, Friuli Venezia Giulia, Emilia Romagna)											
SSL24-N	W-Light 24N	50	SPB-LS	SPB-LS BT	SPB-LS GSM	-	-	160Wp	300Wp*	300Wp	1x150Ah 12V
<b>CENTRO</b> (Toscana, Marche, Umbria, Lazio, Abruzzo, Molise)											
SSL24-C	W-Light 24N	50	SPB-LS	SPB-LS BT	SPB-LS GSM	-	160Wp	160Wp*	300Wp	-	1x150Ah 12V
SSL30-C	W-Light 30N		SPB-LS	SPB-LS BT	SPB-LS GSM	-	160Wp	300Wp*	-	-	1x150Ah 12V
SSL36-C	W-Light 36N		SPB-LS	SPB-LS BT	SPB-LS GSM	-	300Wp	300Wp*	-	-	2x100Ah 12V
<b>SUD</b> (Campania, Puglia, Basilicata, Calabria, Sardegna, Sicilia)											
SSL24-S	W-Light 24N	50	SPB-LS	SPB-LS BT	SPB-LS GSM	150Wp	160Wp*	160Wp	-	-	1x150Ah 12V
SSL30-S	W-Light 30N		SPB-LS	SPB-LS BT	SPB-LS GSM	150Wp	160Wp*	300Wp	-	-	1x150Ah 12V
SSL36-S	W-Light 36N		SPB-LS	SPB-LS BT	SPB-LS GSM	150Wp	300Wp*	300Wp	-	-	2x100Ah 12V
SSL42-S	W-Light 42N		SPB-LS	SPB-LS BT	SPB-LS GSM	300Wp	300Wp*	-	-	-	2x100Ah 12V
SSL60-S	W-Light 60N		SPB-LS	SPB-LS BT	SPB-LS GSM	300Wp	300Wp*	-	-	-	2x150Ah 12V

ESEMPIO DI INSTALLAZIONE A MILANO - SSL24N/50/SPB-LS BT/PV300/B1x150:

SSL24N	50	SPB-LS BT				300	1x150Ah 12V
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\* moduli FV consigliati - AUTONOMIA: 3gg consecutivi NO SUN | ACCENSIONE: 12ore/notte in modalità autogestione | INTERDISTANZA: 20÷25m

1 Seleziona la lampada LED.



NOME	NUMERO LED	POTENZA APPARECCHIO @ Tq=25°C [W]	CORRENTE LED [mA]	FLUSSO NOMINALE LED @ Tj=85°C [lm]	FLUSSO APPARECCHIO @ Tq=25°C [lm]	EFFICIENZA APPARECCHIO @ Tq=25°C [lm/W]	PESO [kg]	LATERALE/PIANTA SUPERFICIE [mm2]
W-Light 24N	12	23.0	650	3785	3090	134	6.0	0.02 / 0.10
W-Light 30N	12	29.7	820	4655	3805	128		
W-Light 36N	12	35.1	960	5338	4365	124		
W-Light 42N	12	42.5	1150	6210	5080	119	8.3	0.03 / 0.10
W-Light 60N	24	59.4	820	9310	7620	128		
W-Light 72N	24	70.0	960	10677	8734	125		
W-Light 84N	24	85.0	1150	12423	10160	119		

2 Seleziona il codice del regolatore di carica.



**SPB-LS**  
Centralina IP66, 15A e Voc 100V con algoritmo MPPT 12V/24V.



**SPB-LS BT**  
Centralina IP66, 15A e Voc 100V con algoritmo MPPT 12V/24V con modulo di controllo Bluetooth.



**SPB-LS GSM**  
Centralina IP66, 15A e Voc 100V con algoritmo MPPT 12V/24V con modulo di controllo remoto GSM.

3 Abbina il modulo FV in base alla zona.



4 Abbina la batteria corrispondente.



# SSL - World configuration

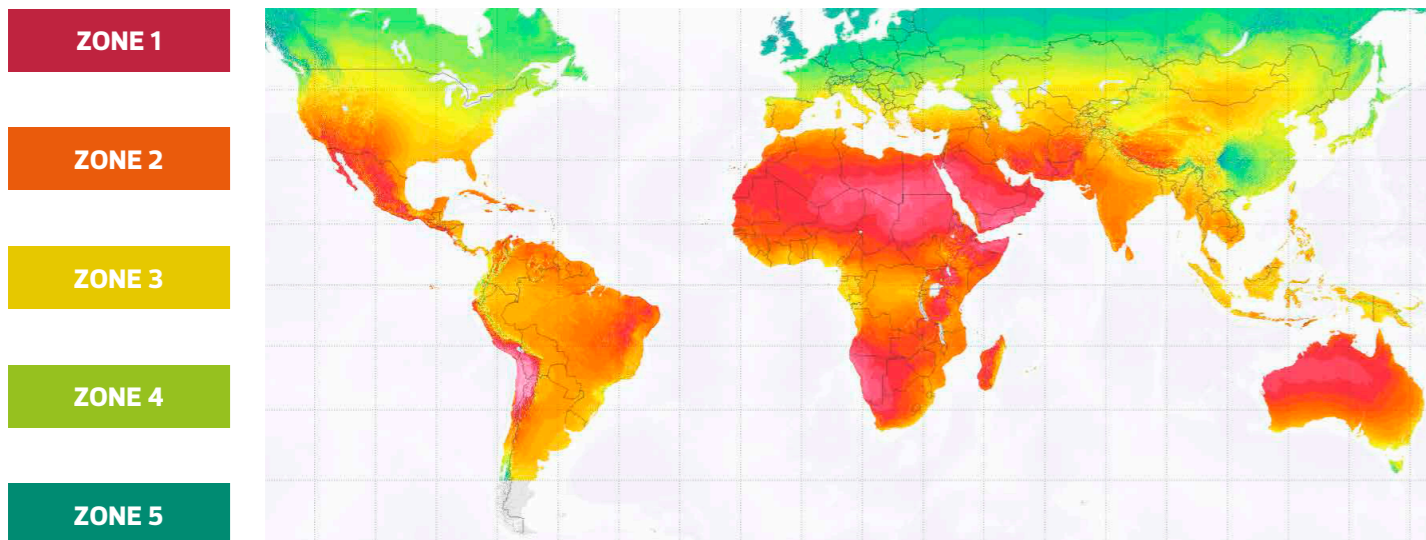
Usa il QRCode e configura il tuo lampione  
Use the QRCode and configure your streetlamp  
Utilisez le QRCode et configurez votre lampadaire



Individua la zona di installazione.

[eng] Identify the installation area.

[fra] Identifier la zone d'installation.



## Componi il codice

[eng] Compose the code

[fra] Composer le code



PV STREET LIGHT		TOP OF POLE	CHARGE CONTROLLER			PV MODULE					BATTERY CAPACITY
MODEL	INTELLIGENT LED LAMP	WTP	SPB-LS	SPB-LS BT	SPB-LS GSM	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	
SSL24	W-Light 24N	25°/50°	SPB-LS	SPB-LS BT	SPB-LS GSM	100Wp	100Wp	150Wp	150Wp	150Wp	1x100Ah-12V
SSL30	W-Light 30N					100Wp	150Wp	150Wp	250+270Wp	250+270Wp	1x150Ah-12V
SSL36	W-Light 36N					150Wp	150Wp	250+270Wp	250+270Wp	250+270Wp	1x150Ah-12V
SSL42	W-Light 42N					150Wp	250+270Wp	250+270Wp	250+270Wp	-	2x100Ah-12V
SSL60	W-Light 60N					250+270Wp	250+270Wp	300Wp	-	-	2x150Ah-12V
SSL72	W-Light 72N					250+270Wp	300Wp	-	-	-	2x150Ah-12V
SSL84	W-Light 84N					250+270Wp	300Wp	-	-	-	2x150Ah-12V
SSL2x36	2 X W-Light 36N					250+270Wp	300Wp	-	-	-	2x150Ah-12V

EXAMPLE OF INSTALLATION ROME - SSL42/50/SPB-LS BT/PV250/B2x100:

SSL24	50°	SPB-LS BT	250	2x100Ah-12V
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ALL STREET LIGHTS: 2 days no sun | 12 hours of self-management | pole spacing 20+25m

1 Seleziona la lampada LED.

[eng] Select the LED lamp.

[fra] Sélectionne la lampe LED.

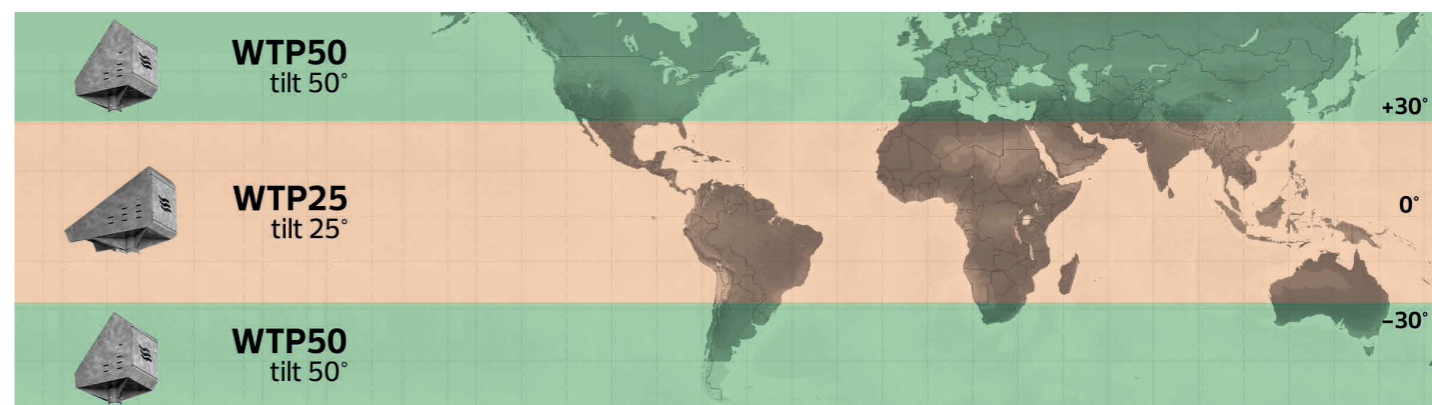


NAME	NUMBER OF LEDs	LUMINAIRE POWER @ Tq=25°C [W]**	LED CURRENT [mA]	NOMINAL LED FLUX @Tj=85°C [lm]*	LUMINAIRE FLUX @ Tq=25°C [lm]**	LUMINAIRE EFFICIENCY @ Tq=25°C [lm/W]**	WEIGHT [kg]	SIDE-TOP SURFACE [mm2]
W-Light 24N	12	23.0	330	3785	3090	134	6.0	0.03 / 0.10
W-Light 30N	12	29.7	400	4655	3805	128		
W-Light 36N	12	35.1	480	5338	4365	124		
W-Light 42N	12	42.5	550	6210	5080	119	8.3	0.05 / 0.15
W-Light 60N	24	59.4	800	9310	7620	128		
W-Light 72N	24	70.0	480	10677	8734	125		
W-Light 84N	24	85.0	550	12423	10160	119		

2 Individua l'inclinazione in base alla mappa.

[eng] Choose the tilt according to the map.

[fra] Repère l'inclinaison par carte.



3 Seleziona il codice del regolatore di carica.

[eng] Select the charge controller code.

[fra] Sélectionne le code du régulateur de charge.



**SPB - LS**  
15A charge controller for PV lighting, MPPT algorithm - Voc 100Vdc with 12/24V self-detect, IP66.



**SPB - LS BT**  
15A charge controller for PV lighting, MPPT algorithm - Voc 100Vdc with 12/24V self-detect, IP66 with **Bluetooth control**.



**SPB - LS GSM**  
15A charge controller for PV lighting, MPPT algorithm - Voc 100Vdc with 12/24V self-detect, IP66 with **GSM control**.

4 Abbina il modulo FV in base alla zona.

[eng] Match the PV module by zone.

[fra] Faites correspondre le module PV par zone.

5 Abbina la batteria corrispondente.

[eng] Match the corresponding battery.

[fra] Faites correspondre la batterie correspondante.