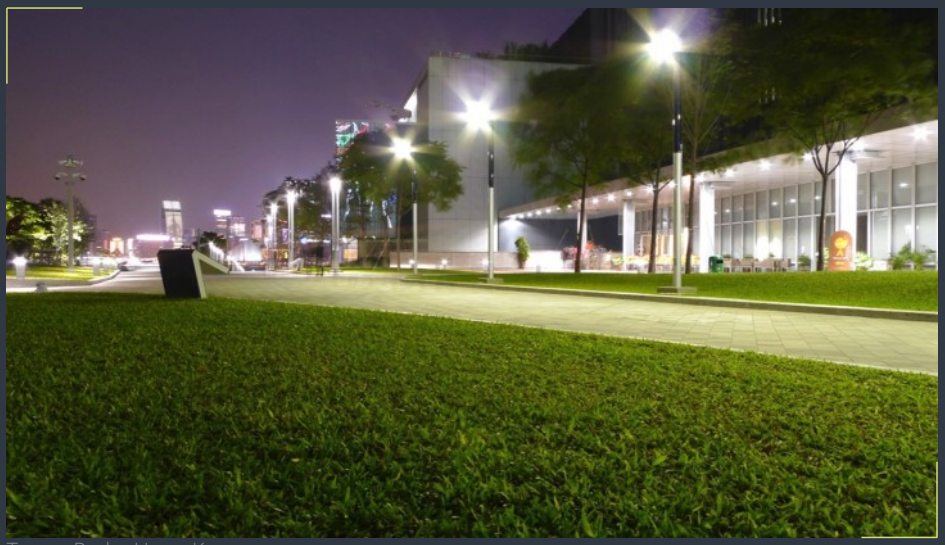
DTi ENERGIES

RE
THINKING
THE
FUTURE©

Range Mira & Champ

Mira 4000
P100-160



Tamar Park - Hong-Kong

The **Mira S100™** is a stand-alone solar lighting system conceived for public professional and private outdoor lighting.

The **Mira S100™** is equipped with an LED light head powered by the photovoltaic module hei power tube™ with an output of 109Wc. This model offers 12 or 18 LEDs delivering a luminous efficiency between 118 and 120 lm / w on the ground.

The **Mira S100™** provides a direct beam, especially suitable for traffic lanes, driveways, private roads, parks, car parks, bike paths, bus shelters, sorting centres, etc.

Due to its intelligent energy management system (microprocessor), the **Mira S100™** guarantees uninterrupted operation even in bad weather conditions, low ambient light and weak sunlight

Two different models are available:

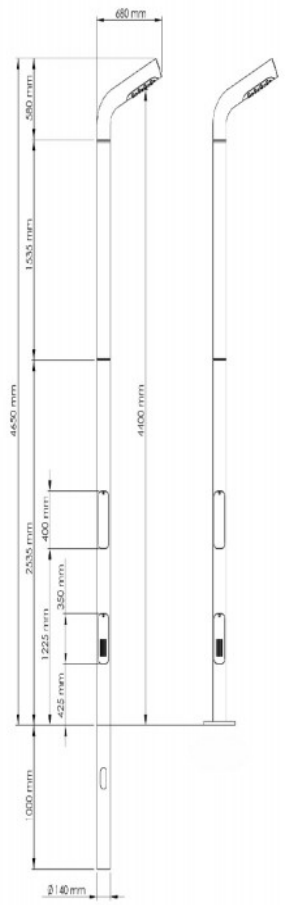
- The **Mira S100-1200**: which has a light head with 12 LEDs
- The **Mira S100-1800**: which has a light head with 18 LEDs

Options:

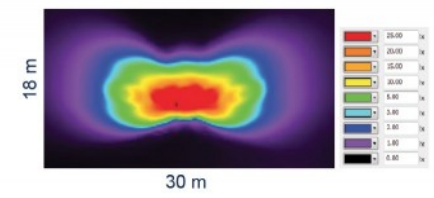
- Motion sensor for customised programming
- Hybrid system combining solar and on-grid
- LED colour temperature options of 4,100k and 3,100k
- Colour recoating of the mast with RAL at buyer's option (additional cost with rate depending on the colour chosen)

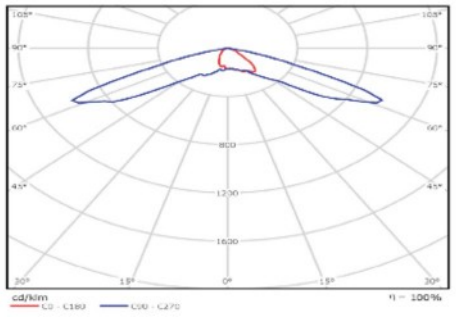
Our partners

Technical data



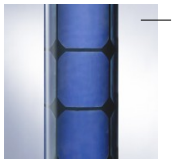
Platine de fixation carrée
Norme EN 40-5
dimensions 330 x 330 x 25 mm
intervalle de perçage de 200 à 250 mm





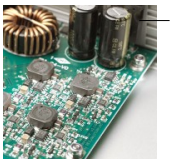
hei power LED™ (Mira & Champ)

- 139 lumen/Watt at 5'300k (illumination source)
- Up to 5'000 lumen possible (illumination source)
- 1 LED chip per optical
- LED replacement possible through its screw attach system
- Optimized illumination



hei power tube™

- Patented photovoltaic technology
- Poly-directional energy yield (360°)
- Accumulates energy by absorbing solar and ambient light
- Monocrystalline silicon cells (Mira & Champ)
- Multi-crystalline silicon celles (Antares)
- Withstands high wind loads
- No deposits on surface
- Reduced risk of vandalism



hei power control™

- Autonomous, individually programmable
- Smart system of monitoring (8-10 nights autonomy)
- Automatic battery management
- MPP Tracking for maximized energy yield
- Brightness control by PWM (Pulse with modulation)

Economic & Ecologic advantages

- Reduced setup costs
- Low maintenance costs
- No electricity consumption
- Zero energy costs in operation
- Zero CO2 emission

OPTICAL FEATURES	Mira S100-1200	Mira S100-1800
Light source	12 high efficiency LEDs	18 high efficiency LEDs
Maximum power*	12 Watt (*at source)	18 Watt (*at source)
Maximum luminous flux*	1'670 lm (*at source)	2'500 lm (*at source)
LED-light temperature	5'300K Cool-white, CRI > 70 (standard), optional 4'100K and 3'100K	
LEDs life expectancy	> 50'000 hours	
LIGHT SYSTEM		
Height installation / light spot	4'650 mm / 4'400 mm	
Light pole diameter / materiel	140 mm / Steel, hot-dip galvanied	
Light head color	RAL 9005 Dark black (standard)	
Light pole color	Paint-coated RAL 9006 white aluminium (standard)	
Weight	ca. 120 kg	
Installation mode	Flange plate (opt. sleeve foundation)	
STREET LIGHTING		
Optimum pole distance	20 m	
Typical street width	5 m	
Typical illuminance	13 lx	15 lx
HEI POWER TUBE		
PV module lenght / diameter	1'500 mm / 140 mm	
PV Cells material / number	Monocristallines cells / 33	
Energy efficiency	100 Wp	
HEI POWER CONTROL		
Controller	Yes	
Profil dynamic lighting	Custom and 36 preset lighting profiles	
Capacity of the battery	32 Ah / 12 V - VRLA cycle type	
Weight / Dimensions of the battery	7 kg / 150x65x95 mm	
STANDARDS / COMPLIANCES		
Illumination / EMV, electronics certificates	EN 13201 / EN 55015, EN 61547	
Certification light pole / PV module	EN 40-5, EN 40-3-1, ISO 1461 / EN 61215 (adapted)	
Ingress protection rating	IP65	
Temperature of service	-30°C à + 70°C	
CE-Certification / RoHS / ISO Standards	Yes / Yes / ISO 9001-2008	

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