

Range Mira & Champ

Champ 4000 P200-215



Troinex - Geneva



The **Champ NG™** is a stand-alone solar lighting system conceived for public, professional and private outdoor lighting.

The **Champ NG™** is equipped with an LED flange, powered by the photovoltaic module **hei power tube™** with an output of 210Wc. This model offers 24 LEDs to reach a luminous efficiency between 118 and 120 lm / w on the ground.

The **Champ NG™** provides a 360 ° circular illumination, perfectly suited for the lighting of squares, parks, parking lots, roundabouts, footpaths, walks, sorting centres etc.

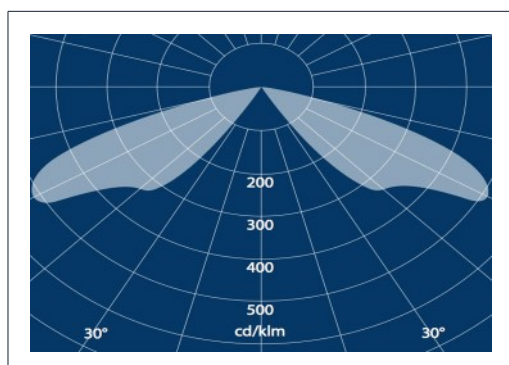
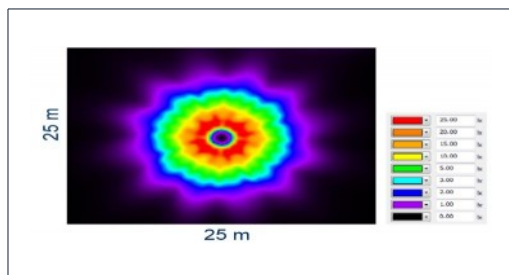
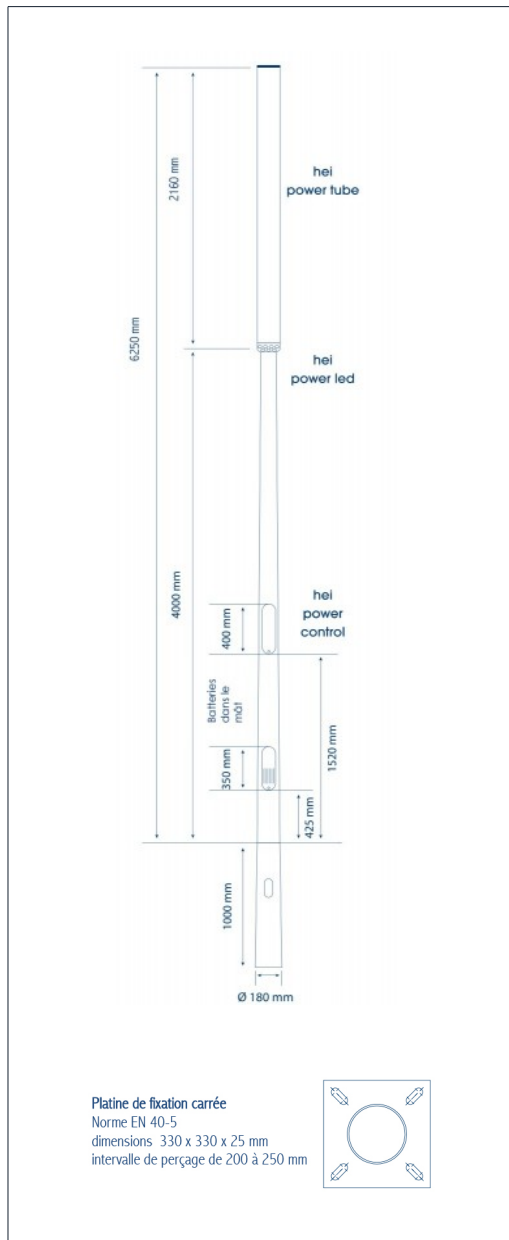
Thanks to its intelligent energy management system (microprocessor), the **Champ NG™** guarantees uninterrupted operation even in harsh weather conditions, dim ambient light and weak sunlight

Options:

- Motion sensor for customised programming
- Hybrid system combining solar and on-grid
- LED temperature in the 4,100k and 3,100k options
- Colour recoating with RAL as per choice (additional cost depending of the chosen colour)

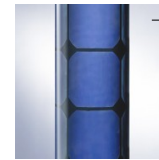
Our partners

Technical data



— 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	Champ NG 190-2400
Light source	24 high efficiency LEDs
Maximum power*	24 Watt (*at source)
Maximum luminous flux*	3'340 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	6'250 mm / 4'000 mm
Light pole diameter / materiel	180mm (basis) / Steel, hot-dip galvanized
Light head color	RAL 9005 Dark black (standard)
Light pole color	Paint-coated RAL 9006 white aluminium (standard)
Weight	ca. 125 kg
Installation mode	Flange plate (opt. sleeve foundation)
STREET LIGHTING	
Optimum pole distance	15m
Typical illuminance	24 lx
Typical street width	-
HEI POWER TUBE	
PV module length / diameter	2'160 mm / 180 mm
PV Cells material / number	Monocrystallines cells / 64
Energy efficiency	200 Wp
HEI POWER CONTROL	
Controller	Yes
Profil dynamic lighting	Costum and 36 preset lighting profiles
Capacity of the battery	72 Ah / 12 V - VRLA cycle type
Weight / Dimensions of the battery	15 kg / 150x94x95 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