

## Technical specifications

HiLight

# MI+ 6

Voltage: 48 Vdc

Factory: ESF, Spain



HiLight MI+ 6 for reference

## General description

The HiLight MI+ 6 is a next-generation mobile light tower engineered to deliver maximum flexibility, efficiency, and autonomy — anywhere the job demands. Built on rugged wheels and designed for fast deployment, it combines advanced surface mount device (SMD) LED technology with lithium-ion batteries and a low-consumption Stage V diesel engine.

With four smart operating modes — battery, diesel, hybrid, and mains — the MI+ 6 adapts to any environment while reducing fuel consumption, emissions, and noise. Ideal for construction sites, events, mining operations, and emergency response, this mobile solution helps users cut operational costs and carbon footprint while maintaining high performance and uptime in even the most challenging conditions.

### TECHNICAL INFORMATION

| Reference conditions                                         |                    |                     |
|--------------------------------------------------------------|--------------------|---------------------|
| Absolute inlet pressure                                      | bar                | 1                   |
| Relative humidity                                            | %                  | 30                  |
| Air inlet temperature                                        | °C                 | 25                  |
| Performance data                                             |                    |                     |
| LED quantity                                                 | pcs                | 4                   |
| LED Rated power                                              | W                  | 200                 |
| LED type                                                     |                    | SMD High Lumen      |
| Efficacy of light                                            | lm/W               | 190                 |
| Luminous Flux total                                          | lm                 | 152.000             |
| CCT                                                          | K                  | 5.000               |
| Light coverage (min 1 lux)                                   | m <sup>2</sup>     | 8.520               |
| Light coverage (avg 20 lux)                                  | m <sup>2</sup>     | 6.000               |
| Battery Type                                                 |                    | LiFePO <sub>4</sub> |
| Battery Quantity                                             | pcs                | 1                   |
| Nominal Energy                                               | kWh                | 6,4                 |
| Light coverage (avg 20 luxes) / Battery Autonomy @ 100% dimm | m <sup>2</sup> / h | 6.000 / 6h45        |
| Light coverage (avg 20 luxes) / Battery Autonomy @ 75% dimm  | m <sup>2</sup> / h | 4.500 / 9           |
| Light coverage (avg 20 luxes) / Battery Autonomy @ 50% dimm  | m <sup>2</sup> / h | 3.000 / 13h30       |
| Light coverage (avg 20 luxes) / Battery Autonomy @ 25% dimm  | m <sup>2</sup> / h | 1.500 / 27          |
| Battery charged by engine (Floodlight OFF / ON)              | h / h              | 3h42 / 4h12         |
| Fuel tank autonomy in Hybrid mode @ 100% dimm                | h                  | 340                 |
| Max wind speed                                               | km/h               | 110                 |
| Noise level dB(A) 7 m                                        | dB(A)              | 55                  |

\*Charge with full sunshine

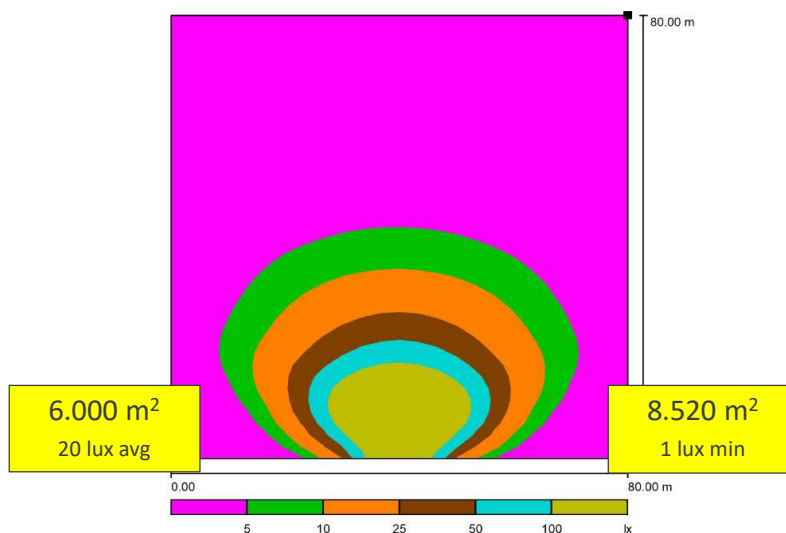
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Machinery safety 2006/42/EC, Electromagnetic compability 2014/30/EU, Low voltage equipment 2014/35/EU, Outdoor noise emission 2000/14/EC, Ecodesign, energy-related products 2009/125/EC, Radio equipment 2014/53/EU, ROHS Directive 2011/65/EU, WEEE Directive 2012/19/EU

|                                                  |          |                            |
|--------------------------------------------------|----------|----------------------------|
| <b>Canopy</b>                                    |          |                            |
| Canopy                                           |          | HardHat®                   |
| Type                                             |          | Undercarriage              |
| Mast Type / Height / Rotation                    |          | Hydraulic / 8 m / 355°     |
| <b>Battery</b>                                   |          |                            |
| Type                                             |          | LiFePO <sub>4</sub>        |
| Nominal voltage / capacity                       | V / Ah   | 51.2 / 125                 |
| Min charging temperature                         | °C       | -10                        |
| Min discharging temperature                      | °C       | -20                        |
| Max charging/discharging temperature             | °C       | 50                         |
| Lifetime N° Cycles @25°C 0.2C/0.2C               | cycles   | 4000                       |
| Maximum Deep Of Discharge (DoD)                  | %        | 95                         |
| Battery heater                                   |          | Standard                   |
| IP grade                                         |          | 65                         |
| <b>Engine</b>                                    |          |                            |
| Brand and Model                                  |          | Kubota Z-482               |
| Speed                                            | rpm      | 1.500                      |
| Rated net output (PRP)                           | kW       | 2,96                       |
| Coolant system                                   |          | Coolant                    |
| Aspiration / Combustion system                   |          | Natural / Direct Injection |
| Number of cylinders                              | Cylinder | 2                          |
| Speed governor                                   |          | Electronic                 |
| Capacity of oil sump (initial fill)              | l        | 3,8                        |
| Capacity of cooling system                       | l        | 2,8                        |
| Electrical system                                | Vdc      | 12                         |
| Emission stage                                   |          | Euro Stage V               |
| <b>Alternator</b>                                |          |                            |
| Brand and Model                                  |          | NSM PMG DC                 |
| Rated output                                     | kVA      | 1,4                        |
| Protection degree                                |          | IP21                       |
| Insulation class                                 |          | H                          |
| Number of wires                                  | Wires    | 4                          |
| <b>Fuel Tank</b>                                 |          |                            |
| Fuel tank capacity                               | l        | 117                        |
| Fuel consumption in charge mode (Floodlights ON) | l/h      | 0,901                      |
| <b>External Charger (option)</b>                 |          |                            |
| Time to charge by MAINS / Max AC Power input     | h / W    | 3 / 1.800                  |
| Time to charge by SOLAR / Max Power input        | h / W    | 7 / 800                    |

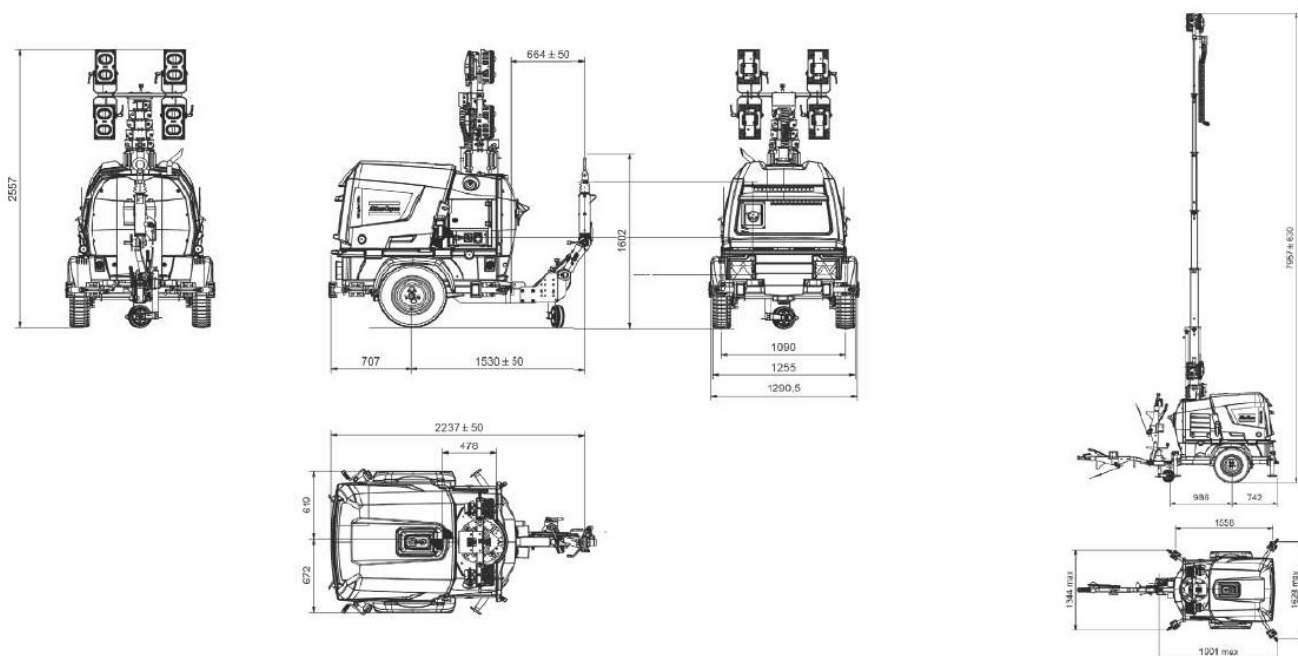
## Lamps

|                                  |      |                              |
|----------------------------------|------|------------------------------|
| Number of lights                 | Unit | 4                            |
| Technology / IP grade / IK grade |      | SMD High Lumen / IP69 / IK10 |
| Floodlight power                 | W    | 200                          |
| Total Lumen                      | lm   | 152.000                      |



## Dimension and weight

|                                               |    |                       |
|-----------------------------------------------|----|-----------------------|
| Length x Width x Height in transport mode     | mm | 2.287 x 1.291 x 2.600 |
| Length x Width x Height in operation mode     | mm | 3.206 x 1.628 x 8.587 |
| Weight (dry / wet)                            | kg | 1.000 / 1.200         |
| Quantity in a 40ft Container / Euro Truck 13m | un | 8                     |



| Mechanical Options                            |
|-----------------------------------------------|
| Cold weather                                  |
| Anti glare                                    |
| Wheel chocks                                  |
| Towing eyes - ball coupling                   |
| Towing eyes - DIN                             |
| Towing eyes - France                          |
| Towing eyes - GB                              |
| Towing eyes - NATO                            |
| Inlet shutdown valve                          |
| Spark Arrestor                                |
| Special color                                 |
| Electrical Options                            |
| Battery switch (1 pole)                       |
| Auto tilt                                     |
| Earth pin                                     |
| Auto mast down safety system                  |
| Roadlights for right and left hand driving    |
| Auto start with photocell                     |
| External power input                          |
| MSA conector                                  |
| Fleetlink                                     |
| Type A ELR                                    |
| Type AC ELR                                   |
| Power output connections 16A 2P: CE, RIM, PIN |