

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)	m²	8.520
Light coverage (avg 20 lux)	m²	6.000
Battery Type		LiFePO ₄
Battery Quantity	pcs	1
Nominal Energy	kWh	6,4
Light coverage (avg 20 luxes) / Battery Autonomy @ 100% dimm	m² / h	6.000 / 6h45
Light coverage (avg 20 luxes) / Battery Autonomy @ 75% dimm	m² / h	4.500 / 9
Light coverage (avg 20 luxes) / Battery Autonomy @ 50% dimm	m² / h	3.000 / 13h30
Light coverage (avg 20 luxes) / Battery Autonomy @ 25% dimm	m² / 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

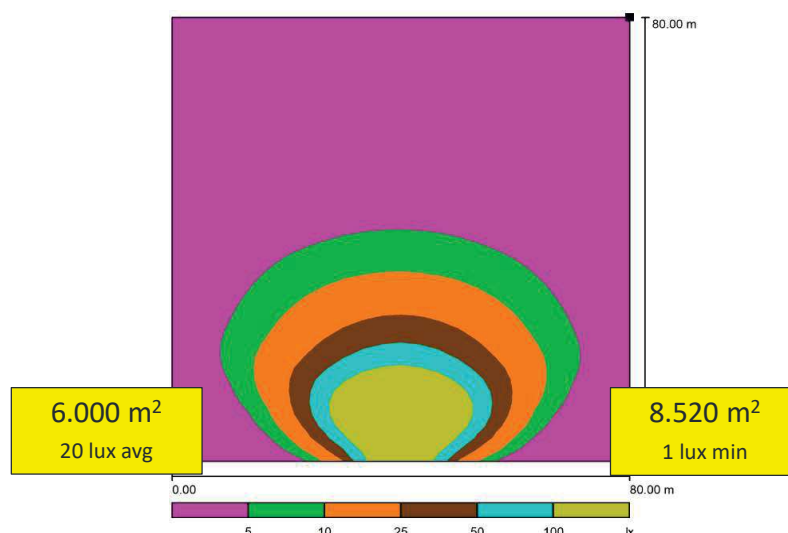
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Machinery safety 2006/42/EC, Electromagnetic compability 2014/30/EU, Low voltage equipment 2014/35/EU, Outdoor noise emission 2000/14/EC, Ecodesign, energy-related products 2009/125/EC, Radio equipment 2014/53/EU, ROHS Directive 2011/65/EU, WEEE Directive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

Canopy		
Canopy		HardHat®
Type		Undercarriage
Mast Type / Height / Rotation		Hydraulic / 8 m / 355°
Battery		
Type		LiFePO ₄
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
Engine		
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
Alternator		
Brand and Model		NSM PMG DC
Rated output	kVA	1,4
Protection degree		IP21
Insulation class		H
Number of wires	Wires	4
Fuel Tank		
Fuel tank capacity	l	117
Fuel consumption in charge mode (Floodlights ON)	l/h	0,901
External Charger (option)		
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

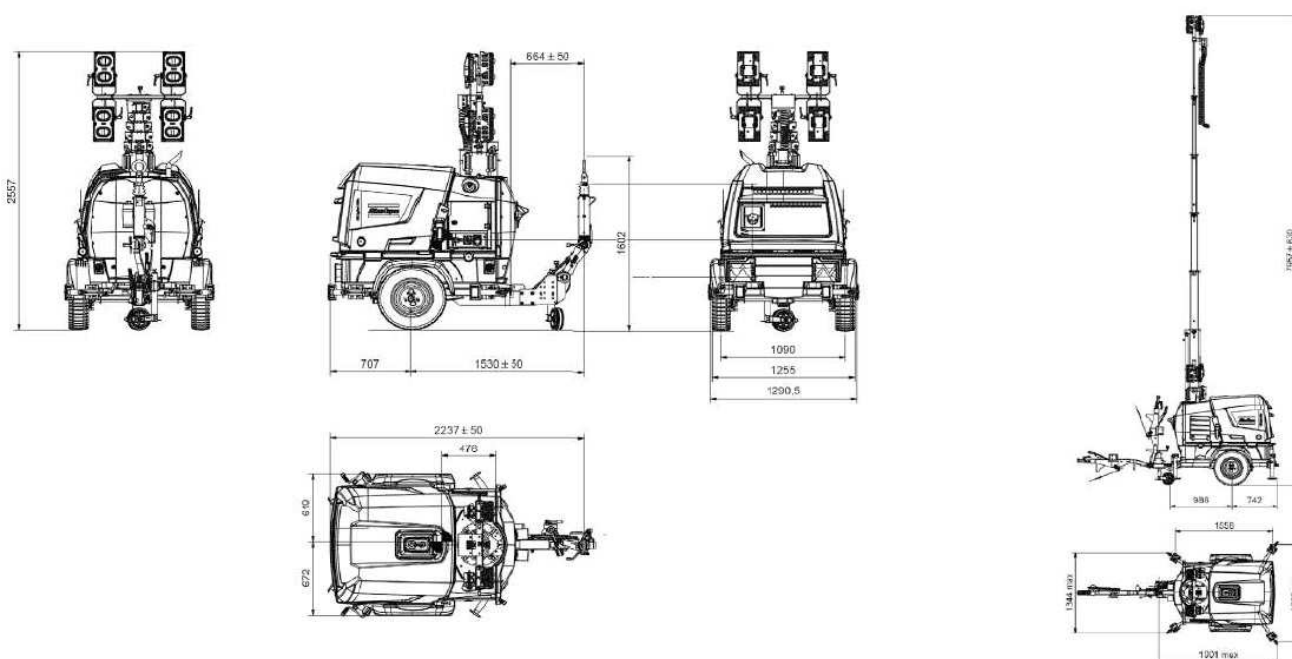
Lamps

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

AUTORYZOWANY PARTNER:

TECHBUD

SILNIKI • MASZYNY BUDOWLANE • DROGOWE • AGREGATY

Techbud Sp. z o.o.
ul. Gorzowska 12
65-127 Zielona Góra

tel. +48 68 470 72 50
fax +48 68 470 72 51
www.techbud.eu
techbud@techbud.eu