



Made in
Germany

MSTE SOLAR



**5 Years
Warranty**

MPT[®] Lumara

Charge Controller

The MPT[®] Lumara solar charge controller with Maximum-Point-Tracking technology is the right product to realize lighting systems.

The integrated day and night regulation operates without an additional daylight control. An external load breaker is not necessary. The integrated load breaker can be loaded up to 6A and switches the lamp direct or alternative with an external relay.

On the market there is available a wide range of low-cost solar modules with 48 up to 72 cells with a higher voltage. The MPT[®] Lumara charge controller is especially developed to realize solar systems with a higher solar voltage.

MPT[®] LU-290-12

Technical Data

DC-input (solar)

Maximum power	290W
Maximum voltage	58V
Recommended MPP-voltage	20V to 42V
Maximum current	25A

DC-output (battery)

System voltage	12V
Voltage range	9,5V to 16V
Maximum charging current (nom. power)	26A
Types of battery	Lead-Gel, AGM, Acid, Lithium-Ion (adjustable)
Final charging voltage	13,5V to 14,7V (adjustable)
Final charging voltage Lithium-Ion	14,4V at delivery, factory modifiable

Features

Display	1 LED: red
Protective Devices	reverse current, overvoltage (fine protection) , over-temperature, overload, reverse battery, short-circuit, overcurrent
Derating overtemperature of the device	>50°C
Interface	BATCONTROLLER [®] E, TTL serial, BMS, temperature sensor KTY, external LED

General Data

Efficiency	<96%
Parallel Operation	up to 8 charge controllers
Self-consumption	0,12W/10mA
Cooling method	Convection with fan >45°C, 25dB(A)
Degree of protection (IEC60529)	IP20
Temperature range (nom. power)	-25°C to +35°C
Dimensions (W/H/D)	155mm/132mm/68mm
Weight	0,7kg
Enclosure	aluminium, coated
Recommended wire cross section	6mm ²
Certificate	conformity EMC89/336/EEC