









The MPT® Up are the ideal upward charge controllers for small modules (36 cells) with 12V solar voltage.

The MPT® Up are unique: in case of low irradiation conventional charge controller stop charging. But the MPT® Up are still working! The MPT® Up charge controllers change into pulsed operation, the solar power will be collected and pulsed to the battery. The energy yield is increased.

Quite remarkable is the very small self-consumption at night with less than 0,15mA!



MPT®170-36-Li	INDUESULAR
Technical Data	
DC-input (solar)	
Maximum power	170W
Maximum voltage	28V
Recommended MPP-voltage	16,5V to 19V
Maximum current	11A
DC-output (battery)	
System voltage	36V
Voltage range	10V to 50V
Maximum charging current (nom. power)	5,5A
Types of battery	Lithium-Ion (adjustable)
Final charging voltage Lithium-Ion	43,2V at delivery, factory modifiable
Features	
Display	3 LED: red, green, yellow
Protective Devices	reverse current, overvoltage (fine protection), reverse battery (external), short-circuit (external), overcurrent (external)
Interface	BMS
General Data	
Efficiency	<96%
Parallel Operation	up to 8 charge controllers
Self-consumption	0,005W/0,15mA
Cooling method	passive cooling, without fan
Degree of protection (IEC60529)	IP30
Temperature range (nom. power)	-25°C to +50°C
Dimensions (W/H/D)	130mm/125mm/45mm
Weight	0,45kg
Enclosure	aluminium, coated
Recommended wire cross section	4mm <sup>2</sup>
Certificate	conformity EMC89/336/EEC