

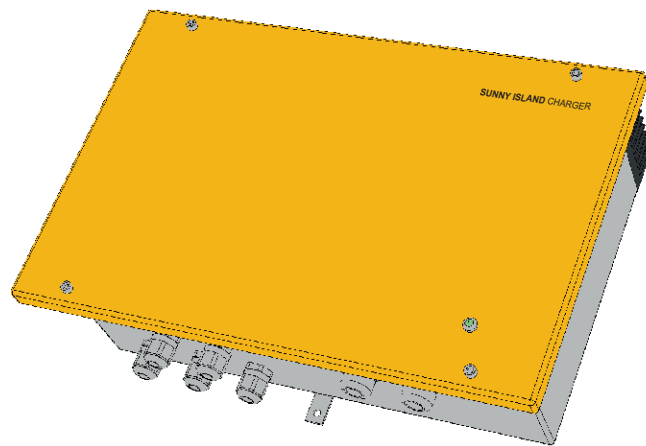
Sunny Island Charger

The trusted MPT® solar charge controller SIC50-MPT® in IP65 enclosure is unique in his power class: the fanless and robust construction, the wide range of temperature and the highest efficiency offers a reliable product for photovoltaic-systems even in very rough environmental conditions. Due to IP65 protection the SIC50-MPT® is reliable even with existance of dust, sand, humidity or insects.

The high solar input voltage makes possible to install nearly all module types. The possible application of many different battery types offers a wide range of versatility. The adjustment of the battery type is very easy.

Our solar charge controller SIC50-MPT® with MPPT-algorithms is optimal tuneable to SMA off-grid systems in combination with the SMA Sunny island inverters. The integration is very easy with the communication tool without any additional parameter settings. The SIC50-MPT® is also perfectly and easily useable as a stand-alone in an off-grid system.

Big systems - no problem! - up to 8 devices can be installed parallel to charge one battery block (in SMA systems up to 4 devices).



Sunny Island Charger



DC-input (solar)			
Maximum power	630W	1250W	2400W
Maximum voltage	140V not to exceed under all conditions		
Recommended MPP-voltage	25 - 60V DC	40 - 80V DC	70 - 100V DC
Maximum current	40A	40A	40A
DC-output (battery)			
DC-Bemessungsleistung bis 40°C	600W	1200W	2400W
System voltage	12V	24V	48V
Maximum current	50A	50A	50A
Maximum voltage	15.6V	31.5V	65V
Types of batteries	Lead-Gel, AGM, Acid, Lithium-Ion (as stand-alone)		
Features			
Communication	RS-232, CAN (with Piggy-Back)		
Interfaces	temperature sensor or BMS (as stand-alone)		
Protective Devices	reverse current, short circuit, over and undertemperature, over- and undervoltage		
Advertisement	multicolored LEDs		
Parametrization	Plug&Play with SMA SI5048, SI2224, SI2012, DIL switch as stand-alone		
General Data			
Efficiency	<98%		
Parallel operation	up to 4 devices (stand-alone up to 8 devices)		
Self-consumption	0,7W	0,7W	1,2W
Degree of protection (IEC60529)	IP65		
Humidity	0% to 100%		
Temperature range	-25 °C to +60 °C		
Dimensions (W/H/D)	42.1cm*31.0cm*14.3cm		
Weight	10kg		
Enclosure	Steel, coated		

