

WP-Suntrack 60 & 80 amp

High yield MPPT solar charge controllers



Datasheet



- Essential components for off- grid power systems
- Optimizing solar production, for a fast and 100% re-charge of the battery
- Two models: 65 Amp and 80 Amp power
- Suitable for 12, 24 and 48 VDC Solar Systems
- Input voltage up to 150 VDC
- Automatic tracking of the maximum power point
- Fully compliant to our Grid Independent Solar/ Diesel Power System
- Suitable to charge any type of battery including Lithium ION



green energy solutions



green energy solutions



WP-Suntrack 60 & 80 amp

Electrical characteristics PV array side Art. Nr.	WP-Suntrack 65 60110420	WP-Suntrack 80 60110421
Nominal Battery Voltage	12V / 24V / 48V	12V / 24V / 48V
Maximum Solar Power Recommended	1000W / 2000W / 4000W	1250W / 2500W / 5000W
Maximum Solar VOC	80VDC / 150VDC / 150VDC	
Maximum Solar VMP	75VDC / 145VDC / 145VDC	
Electrical charecteristics Battery side		
Maximum Output Current	65A	80A
Nominal Battery Voltages	Automatic or Manual set to 12 / 24 / 48VDC	
Operating Voltage Range	Above battery voltage, minimum 7V	
Performances of the device		
Power Conversion Efficiency	98%	
Maximum Standby Consumption (48V)	25mA > 1.2W	
Maximum Standby Consumption (24V)	30mA > 0.8W	
Maximum Standby Consumption (12V)	35mA > 0.5W	
Battery Charge Modes	4 Stages: Bulk, Absorbtion, Float, Equalisation	
Battery temperature compensation	(available with accessory BTS-01) -3mV / °C / cell (25°C ref) default value adjustable -8 to 0mV / °C	
Electronic Protection		
PV Reverse Polarity	Protected	
Battery reverse polarity	Up to -150VDC	
Battery overvoltage	Up to 150VDC	
Over temperature	Protected	
Reverse current at night	Prevented by relays	
Enviroment		
Operating Ambient Temperature Range	-20°C to 55°C	
Humidity	100%	
Ingress Protection of Enclosures	IP54, IEC/EN60529:2001	
Mounting Location	Indoor	
General Data		
Warranty	5 Years	
Weight	5.2kg	5.5kg
Dimensions h/w/l (mm)	120 / 220 / 310	120 / 220 / 350
Parallel Operation (separated PV arrays)	Up to 15 devices	
Max wire size	35mm²	
Glands	M20 x 1.5	
Communication		
Network Cabling	WPC Communication Bus	
Remote Display and Controller	WP-RC or WP-PSCP	
Menu languages	English / French / German / Spanish	
Data Logging	With WP-RC and SD card • One point every minute	
Accordance to standards		
CE compliant	EMC 2004/108/CE • LV 2006/95/CE • RoHS 2002/95/CE	
Safety	IEC/EN 62109-1:2010	
EMC (Electro Magnetic Compatibility)	IEC/EN 61000-6-3:2011 • IEC/EN 61000-6-1:2005	

WP-Suntrack – product description

Maximum power point tracking (MPPT) is a technique that solar charge controllers, grid connected inverters and similar devices use to obtain the maximum possible power from one or more photovoltaic devices. The MPPT technique is essential to optimize the efficiency of a solar system. The WP– SUNTRACK combines an superior MPP Tracking and a perfect charge algorithm, ensuring a fast and reliable charge of the batteries. This includes multi stage, temperature compensated charging. The WP-Suntrack should be installed between the solar array and the battery. The MPPT continuously seeks out the solar generator's optimal voltage to retrieve the maximum available energy. This operating point varies constantly depending on outdoor conditions (sunlight, temperature etc.) to which it must adapt.

Features and performances

- Tracking efficiency: >99%
- Conversion efficiency: 98%
- 4 step charger for longer battery life
- 8 predefined battery charge curves as standard
- Free programming of the battery's load curve with the WPC remote panel
- Low self-consumption: <1W in night mode
- Protection against incorrect wiring
- Protection against reverse polarity
- Fully configurable
- IP54 enclosure
- Comprehensive display, programming and data logging with the WPC remote panel
- Up to 15 WP Suntrack units can be installed in parallel on the same communication bus



PSCP



WP-RC