



SelectSun



Selectronic accessories to support the SelectSun 3 phase grid-tie inverter range




Our all new SelectSun range of 3 phase solar inverters are equally at home with or without batteries. Available in 20kW and 40kW models, SelectSun delivers maximum yield with minimal fuss, no external fans and an IP65 rating. SelectSun is suitable for both On Grid and true Off-Grid requirements, with the addition of energy storage with an SP PRO bi-directional inverter. This range of accessories have been designed and made to support SelectSun system requirements with a wide variety of configuration options.



Grid Independence | Outstanding Reliability | Ultimate Flexibility

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SelectSun Temperature and Irradiation Sensor

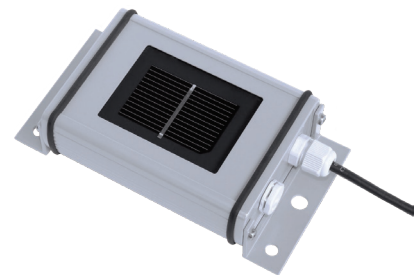
-  Precise measurement
-  Full energy yield control
-  Sturdy and weatherproof

Measure your PV system's performance. The external SelectSun Temperature and Irradiation Sensor accurately captures the two ambient parameters, which together have an impact on the current performance of a PV system: cell temperature and light intensity.




It is compatible with all SelectSun inverters. The device's active temperature compensation function increases its measuring accuracy. The extended measurement range of up to 1,500 W/m², the individual calibration to the standard measurement signal and the possibility of measuring module temperature make the sensor a powerful data collection tool. The inverter integrated data-logger records the temperature and irradiation values and communicates them to the REFUlog monitoring portal.

These additional values allow you to display the operating conditions of your PV system even more accurately and to identify system errors more quickly. In REFUlog, this data provides information on the performance.

SelectSun Si-V-10CT-T	
Selectronic Part Number	101584
REFUsoI Part Number	922019
SOLAR IRRADIATION	
Measurement range (W/m ²)	0 ... 1500
Output signal (V)	0 ... 10
Measuring uncertainty	± 5 W/m ² / ± 2.5% of measurement value
MODULE TEMPERATURE	
Measuring range (°C)	-40 ... + 90
Output signal (V)	0 ... 10
Measuring uncertainty	1.1
TERMINAL ASSIGNMENT	
Pin 1	Plus signal temperature (0 ... 10 V)
Pin 2	Plus signal irradiation (0 ... 10 V)
Pin 3	Supply voltage (12 ... 28 VDC)
Pin 4	Ground
GENERAL DATA	
Dimensions W x H x D (mm)	155 x 85 x 39
Weight (g)	350 ... 470
Cell dimension (mm)	50 x 33
Ambient temperature (°C)	-35 ... +80
Supply voltage (VDC)	12 ... 28
IP class	IP67 in conjunction with the suitable connector
Connecting cable	4 x 0.14mm ² , 3m (UV-stable)



SelectSun Export Limiting Controller

-  Feed-in power limitation
-  Easy configuration and monitoring
-  Pre-wired cabinet

Grid interconnection points for solar plants are often imposed with restrictions on the level of feed-in power. With the SelectSun Export Limiting Controller, these limitations can easily be implemented – from a specific power limit to zero feed-in. Using this product enables new self-consumption applications with SelectSun inverter.

Three-phase power measurement

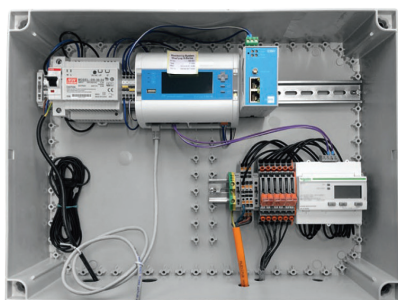
The SelectSun Export Limiting Controller measures the power at the grid connection point with a Modbus Energy meter. By using easy to install current sensors the installation time is minimized. Depending on the local requirements and settings, the controller can limit the inverter power if the energy production is too high or local energy consumption is too low.

Perfect overview

The integrated web interface shows the actual consumption and PV generation and provides an easy configuration screen.

Dynamic control

With the integrated Ethernet and RS485 interfaces, fast and reliable communication between the SelectSun Export Limiting Controller and the inverters is ensured.



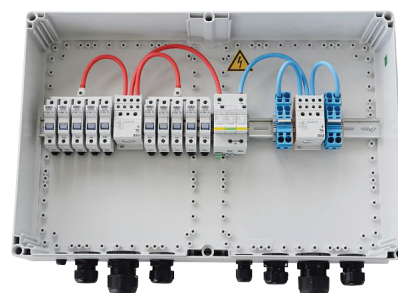
	SelectSun – RC-21 PRO	SelectSun – RC-22 PRO	SelectSun – RC-23 PRO
Selectronic Part Number	101577	101582	101583
REFUsoI Part Number	924011	924012	924013
CONTROLLER			
Type	Meteocontrol blue'Log X-1000 Monitoring and Control unit of X-Series		
Data interfaces	2 x RS485, 1 x ethernet, 1 x CAN		
Inputs	4 x Digital / analog inputs (0-24VDC / 50 / 0-20mA / PT1000, configurable)		
Outputs	4 x Digital outputs (open collector / 20-60 V according to power supply voltage, configurable)		
Memory storage	USB, SD Card		
POWER SUPPLY			
Type	DIN rail power supply		
Power supply input	100 ... 240 V AC, 120 ... 370 VDC		
Power supply output	24 VDC / 1.5 A / 36 W		
ENERGY METER			
Type	3 phase energy meter		
AC voltage measurement	3 phase 4 wires: (P-N / P-P) 100 ... 277 V AC / 173 ... 480 V AC		
AC current measurement	1A / 5A current transformer (current transformer not scope of supply)		
Accuracy class	B according to EN 50470-3 / 1 according to IEC 62053-21, MID conform: yes		
Terminals	Pre-wired with terminals for current and voltage transformers		
Data interface	RS485 / Modbus		
FEATURES			
Power limitation	Feed-in limit as percentage of AC power or solar generator power. Feed-in limit absolute in kW. Zero feed-in to grid. Minimum energy consumption from grid. 3 phase control		
Data logging	Locally		
Portal option	Connect to Meteocontrol monitoring (subject to additional fees)		
GENERAL DATA			
Dimensions W x H x D (mm)	500 x 375 x 225		
Enclosure	Insulated, with mounting brackets for wall mounting and sealable lid closures		
Colour	RAL 7032 (box) transparent, colourless (cover)		
UV resistance	Under protective cover		
Operating temperature (°C)	IP65, UV resistant		

SelectSun DC Combiner Box

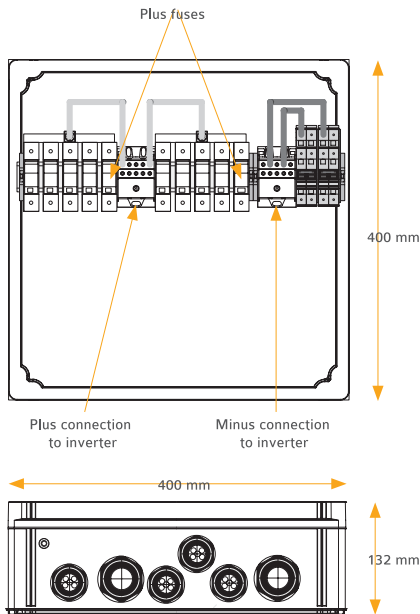
-  European made
-  Cost-optimised
-  Customised options

The SelectSun DC Combiner Box allows the string collection near the solar modules, in order to connect the inverter with an efficient homerun in aluminum or copper. Hereby both – a decentralized as well as a centralised – installation of the string inverters is possible.

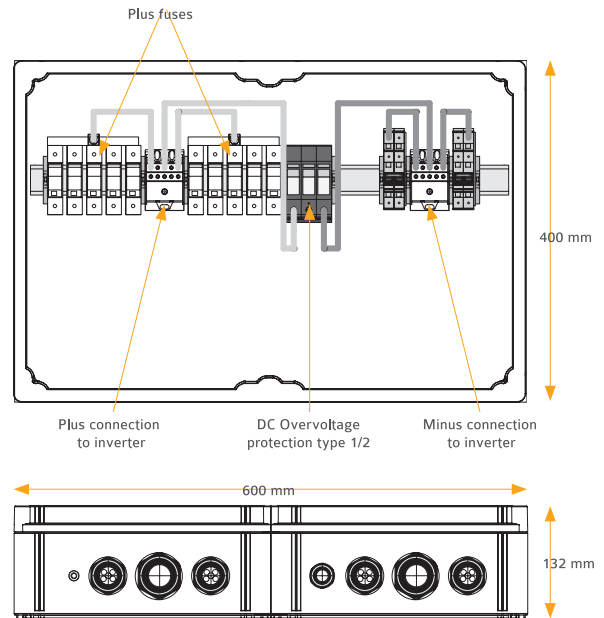
SelectSun 10-1 PM SPDI+11	
Selectronic Part Number	101580
REFUsoL Part Number	925005 (single shipment), 925015 (pallet shipment)
INPUT	
Rated voltage (VDC)	1000
Rated insulation voltage (VDC)	1000
Mac. current (A per input)	10
Plus connection	10 x fuseholder 2.5 ... 16mm ²
Minus connection	10 x spring terminal 2.5 ... 16mm ²
Cable glands	4 x M32 with multiple seals for 5 cable (OD 5 ... 7mm)
OUTPUT	
Max. current (A)	100
Plus and minus connection	2 x distribution block 35 ... 120mm ² Cu / Al
Minus connection	2 x M40 (outer diameter: 16 ... 28mm) 2 x reducing seal element (outer diameter: 12 ... 20mm) with 2 x blind plugs 7mm
PROTECTION FEATURES	
DC overvoltage protection	SPD type 1/2 - VALMS - T1 / T2 1000DCPV / 2+V
Grounding connection	Only for SPD: Direct connection to SPD with ferrule max. 25mm ² , without ferrule: Max. 35mm ²
Grounding cable glands	Only for SPD: 1 x M20 (outer diameter: 6 ... 13mm)
ENCLOSURE	
Dimensions W x H x D (mm)	600 x 400 x 132
Weight (kg)	7.8
Material	Reinforced polycarbonate
Colour	grey
Protection class	II
IP class	IP65, UV resistant
Protective vent	Yes
Brackets	Included, stainless steel
Fuses	PV Fuses 10 x 38mm 1000 VDC not included, order separately 922013: PV Fuse 10 x 38mm 1000 VDC 15A - order multiple of 10 (packing unit) 922017: PV Fuse 10 x 38mm 1000 VDC 16A - order multiple of 10 (packing unit)



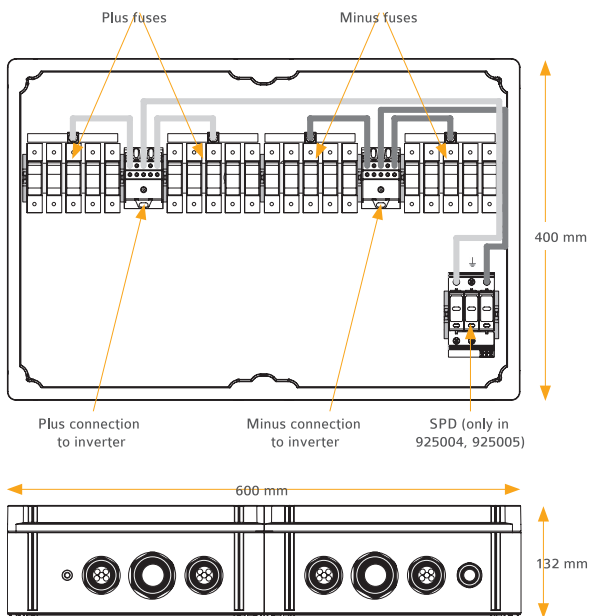
925001
COMBINERBOX 10-1, P



925002
COMBINERBOX 10-1, P, SPD II



925004, 925005, (925003)
COMBINERBOX 10-1, PM, (SPD)



925010, (925009)
COMBINERBOX 10-1, PM, SPD, (MC4)

