



SelectSun

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. Rooftop PV, solar farms or add energy storage with an SP PRO bi-directional inverter and you will have a system that is flexible enough to tackle On Grid or true Off Grid.

City to the country, and backed by one of the world's longest-established Inverter companies.

Product Highlights

- ☞ Grid Tie or Battery Storage with the SP PRO
- ☞ 20kW and 40kW models
- ☞ 490 - 850V MPPT @ full power
- ☞ Integrated monitoring
- ☞ Up to 5 units per storage system
- ☞ IP65 rating
- ☞ Low maintenance design
- ☞ Full power @ 40°C
- ☞ Lightweight design
- ☞ 5 year standard warranty*
- ☞ 5 year warranty extension*

* Conditions apply see website for details



Grid Independence | Outstanding Reliability | Ultimate Flexibility

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SelectSun Series Specifications



	SelectSun 20kW	SelectSun 40kW
AC DATA		
AC nominal power (kW) @ 40°C	20	40
AC grid connection	L1, L2, L3, N, PE	
Nominal power factor / range	1 / 0,8i ... 0,8c	
Nominal voltage AC (V)	415	
Voltage range AC (V)	320 ... 460	320 ... 480
Nominal frequency / frequency range (Hz)	50, 60 / 45 ... 65	
Max. AC current (A)	3 x 29.2	3 x 59
Max. THD (%)	1.8	< 3
Max. efficiency (%)	98.2	
Feed-in from (W) / self consumption night	20 / < 0.5	40 / < 0.5
DC DATA		
Max. recommended PV power (kWp)	30.0	60
MPPT range (V)	250 ... 850	250 ... 900
MPPT range at nominal power (V)	490 ... 850	
Max. voltage DC (V)	1000	
DC start voltage (V)	350	
Max. operational current DC (A)	41.8	84
Max. short circuit current ISC of PV system (A)	50	160
MPP Trackers	1	
No. DC inputs	6 x plus, 6 x minus Pheonix Sunclix®	1 x plus, 1 x minus
BATTERY INTEGRATION DATA		
No. of SelectSun that can be connected to an SP PRO battery system	5 per 3 phase system	
Communications between SelectSun and SP PRO	RS485	
Power control reaction time	< 1 sec	
Frequency change	No change	
Communication method between SelectSun and SP PRO	RS485 wired up to 100m wireless RS485 up to 200m	
AMBIENT CONDITIONS		
Cooling	Natural convection	
Ambient temperature (°C)	-25 ... +55	-25 ... +60
Rel. air humidity (%)	4 ... 100	
Noise (dBA)	< 45	
Type of protection (IEC 60529)	IP65	
SAFETY AND PROTECTION		
DC switch / isolation monitoring	Yes / Yes	
Grid monitoring	Voltage, frequency, anti islanding, DC injection	
Residual current monitoring (RCD)	Yes	
Protection class (IEC 62103) / overvoltage category (EN 6066a-1)	I / DC: II, AC: III	I
GENERAL DATA		
Euro Efficiency (%)	97.8	
Interfaces	Interfaces ethernet, RS485, sensor (temperature / irradiation sensor / remote stop signal)	Ethernet, RS485, temperature and irradiation sensor / external stop signal
Dimensions W x H x D (mm) / weight (kg)	535 x 601 x 277 / 38.4	755 x 820 x 300 / 75.6
Certification	IEC 62109-1, IEC 62109-2, IEC 62116, IEC 61727, IEC 61683, IEC 60364-7-712, EN 50438, AS 4777.2: 2015	
Warranty	5 Years	
ACCESSORIES		
DC combiner box	10 Strings with fusing Positive and Negative, Surge Protection Class I, 10A input per string with terminal connections.	
Extended warranty	Extend the standard warranty from 5 years to 10 years	
PV sizing tool	refu-design.com	
Internet monitoring	refu-log.com	
REFU control	Export control 100% - 0% of up to 25 inverters	