

# PS "Power Station" Central Inverter 1500Vdc

## TECHNICAL DATA

Power Station Family	PS Type 1		PS Type 2		PS Type 3		PS Type 4	
Model	2200	4400	2660	5320	2830	5660	3000	6000
<b>INPUT PARAMETERS</b>								
Max power PV modules (kWp)	2790	5580	3372	6744	3582	7152	3813	7624
Operating voltage range [V]	800-1450		900-1450		950-1450		1020-1480	
Min/max MPPT voltage (V) Full Power	800-1400		900-1400		950-1400		1020-1450	
Max voltage (no operation) @-10°C [Vdc]	1500							
N° MPPT	1	2	1	2	1	2	1	2
MPPT operating	Master& Multi-Slave logic							
N. DC Input	16	2 x 16	16	2 x 16	16	2 x 16	16	2 x 16
DC Switch	2	4	2	4	2	4	2	4
DC Protection	Fuse protection							
<b>OUTPUT PARAMETERS</b>								
Rated apparent power Sn [kVA] 50 °C	2200	4400	2660	5330	2830	5660	3000	6000
Number of power cores	4	8	4	8	4	8	4	8
Nominal voltage inverter (V)	550		600		640		640	
THDi Inverter	<3% (rated power)							
Max Efficiency inverter (%)	99,45		99,45		99,45		99,45	
Euro Efficiency Inverter (%)	99,24	99,22	99,33	99,32	99,36	99,35	99,53	99,61
Nominal Voltage System (kV)	to 6kV up 34,5kV							
Nominal Frequency (Hz)	50 or 60							
Rated Power Factor	0.9 ... 1.0 Leading - Lagging (adjustable according to Local Grid Code)							
MV Transformer	ONAN Ecodesign							
Inverter Protection	Overcurrent, Overload, Electronic Protection, Overtemperature,							
System Protection	Overcurrent, Overload, Overtemperature							
<b>GENERAL FEATURES</b>								
Operative temperature (°C)	-20/ +51 ( without derating)							
Max Operatig Temperature Inverter (°C)	60							
Operating humidity range (%)	5 / 95% without condensation							
Maximum altitude with no power derating at max ambient temp (51°C) m	2000							
Overvoltage class (input DC)	Class II							
Overvoltage class (output AC)	Class II							
Night Function	Supported							
Communication System	RS485 Modbus RTU; Modbus TCP; Ethernet							
	Connectable by PPC or CCI							
Environment Category	Outdoor installations							
Standards	CE - LVD -2004/108/EC - 2006/95/EC - EN62109-1/2 - EMC - EN61000-6-2/6-3/6-4 - Regio Decreto - CEI 0-16 Allegato A70 di Terna - Allegato A68 di Terna - G59 Issue 2 - Rules grid Romanian 30/2013 - 74/2013 Norma Tecnica de Seguridad De calidad de Servicio (NTSCS-Chile) - BDEW- AS4777 - Código redes fotovoltaico ASEP - DEWA - Codigo de red RETIE Colombia-others on request							

\*In the interests of product improvement SIEL reserves the right to change specifications without notice.

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## Soleil Conversion Unit

The experience gained in the field of renewable energies and attention to energy efficiency have guided the making of the Soleil Power Station, the new integrated "plug & play" solution for a direct connection to the medium voltage grid and injection of the generated energy.

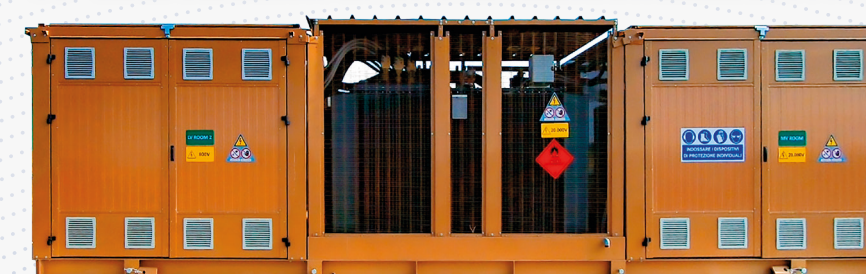
Soleil Power Station is equipped with an integrated communication platform that allows remote monitoring of the entire plant. Designed with customization at its core, the Soleil Power Station can be tailor-made to meet specific requests and requirements. This flexibility ensures that each installation meets the unique needs of its location, also complying with international grid, providing optimal performance and reliability. Conceived for outdoor installation, the system is robust and resilient, capable of withstanding various environmental conditions.

- Tailor-made according to requests
- Plug & Play
- Outdoor installation
- MV System 3 phases
- MV transformer included
- MV switchboard included
- Datalogger Communication system included
- MODBUS / LAN / ADSL / GPRS
- Transportable by truck and sea shipping
- International Grid Code compliance
- Connectable by PPC or CCI

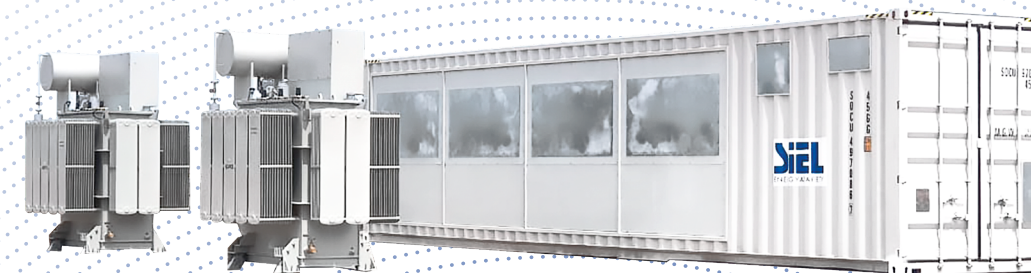
### SPS "STRING POWER STATION" INVERTER 1500VDC



### TC "TRASFORMATION CABIN" FOR STRING INVERTER 1500VDC



### PS "POWER STATION" CENTRAL INVERTER 1500VDC



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## SPS "String Power Station" Inverter 1500Vdc

Sizes information of the String Power Station below refer to 250k inverter. Siel will design and customize according to your requests.

### TECHNICAL DATA

Power Station Family	SPS Type 1		SPS Type 2		SPS Type 3		SPS Type 4	
Model	500	750	1000	1250	1500	1750	2000	2250
Size inverter	250	250	250	250	250	250	250	250
N° inverter	2	3	4	5	6	7	8	9
Dimensions (WxDxH) mm	6000x2300x2700		7000x2300x2700		9500x2300x2700		10500x2300x2700	
<b>INPUT PARAMETERS</b>								
Max power PV modules (kWp)	700	1400	2100	2800	4200	5600	7000	9240
Operating voltage range [V]	500-1500		500-1500		500-1500		500-1500	
Min/max MPPT voltage (V) Full Power	860-1250							
Max voltage (no operation) @-10°C [Vdc]	1500							
N° MPPT	N. 12*30A or N.6*60A each inverter							
N. DC Input	24 for inverter with MPPT 30A / 18 for inverter with MPPT 60A each inverter							
DC Switch	4 switch each inverter							
DC Protection	Self-protected for MPPT 30A / Fuse protection for inverter 60A MPPT							
<b>OUTPUT PARAMETERS</b>								
Rated apparent power Sn [kVA]	500	750	1000	1250	1500	1750	2000	2250
Nominal voltage inverter (V)	800							
THDi Inverter	<3% (rated power)							
Max Efficiency inverter (%)	99,02							
Euro Efficiency Inverter (%)	98,70							
Nominal Voltage System (kV)	to 6kV up 34,5kV							
Nominal Frequency (Hz)	50 or 60							
Rated Power factor	0.8 ... 1.0 Leading - Lagging (adjustable according to Local Grid Code)							
MV Transformer	Cast Resine Ecodesign							
Inverter Protection	Overcurrent, Overload, Electronic Protection, Overtemperature,							
System Protection	Overcurrent, Overload, Overtemperature							
<b>GENERAL FEATURES</b>								
Operative temperature (°C)	-20/ 50°C							
Max Operatig Temperature Inverter (°C)	60							
Operating humidity range (%)	0 / 100%							
Maximum altitude (m)	4000 mt (over 3000 mt derating Power)							
Overvoltage class (input DC)	Class II							
Overvoltage class (output AC)	Class II							
Night Function	Supported							
Communication System	RS485 Modbus RTU; Modbus TCP; Ethernet							
	Connectable by PPC or CCI							
Environment Category	Outdoor installations							
Standards	CE - LVD -2004/108/EC - 2006/95/EC - EN62109-1/2 - EMC - EN61000-6-2/6-3/6-4 - Regio Decreto - CEI 0-16 Allegato A70 di Terna - Allegato A68 di Terna - G59 Issue 2 - Rules grid Romanian 30/2013 - 74/2013 Norma Tecnica de Seguridad De calidad de Servicio (NTSCS-Chile) - BDEW- AS4777 - Código redes fotovoltaico ASEP - DEWA - Codigo de red RETIE Colombia- others on request							

## TC "Trasformation Cabin" for String Inverter 1500Vdc

Sizes information of String Power Transformation Cabinet below refer to 250k inverter, Siel will design and customize according to your requests.

### TECHNICAL DATA

Power Station Family	TC Type 1		TC Type 2		TC Type 3		TC Type 4	
Model	500	1000	1500	2000	3000	4000	5000	6600
Size inverter	250	250-350	250-350	250-350	250-350	250-350	250-350	250-350
Max N° inverters connectable	2	4	6	8	14	18	22	28
Dimensions (WxDxH) mm	4000x2300x2700		7000x2300x2700		8000x2300x2700		9500x2300x2700	
<b>INPUT PARAMETERS</b>								
Max power PV modules (kWp)	700	1400	2100	2800	4200	5600	7000	9240
Operating voltage range [V]	500-1500		500-1500		500-1500		500-1500	
Min/max MPPT voltage (V) Full Power	860-1250							
Max voltage (no operation) @-10°C [Vdc]	1500							
N° MPPT	N. 12*30A or N.6*60A each inverter 250k; 12*40A for 350k inverter family							
N. DC Input	24 for inverter with MPPT 30A & 40A / 18 for inverter with MPPT 60A each inverter							
DC Switch	4 switch each inverter							
DC Protection	Self-protected for MPPT 30A & 40A / Fuse protection for inverter 60A MPPT							
<b>OUTPUT PARAMETERS</b>								
Rated apparent power Sn [kVA]	500	1000	1500	2000	3000	4000	5000	6600
Nominal voltage inverter (V)	800							
THDi Inverter	<3% (rated power)							
Max Efficiency inverter (%)	99,02							
Euro Efficiency Inverter (%)	98,70							
Nominal Voltage System (kV)	to 6kV up 34,5kV							
Nominal Frequency (Hz)	50 or 60							
Rated Power factor	0.8 ... 1.0 Leading - Lagging (adjustable according to Local Grid Code)							
MV Transformer	Cast Resine Ecodesign							
Inverter Protection	Overcurrent, Overload, Electronic Protection, Overtemperature,							
System Protection	Overcurrent, Overload, Overtemperature							
<b>GENERAL FEATURES</b>								
Operative temperature (°C)	-20/ 50°C							
Max Operatig Temperature Inverter (°C)	60							
Operating humidity range (%)	0 / 100%							
Maximum altitude (m)	4000 mt (over 3000 mt derating Power)							
Overvoltage class (input DC)	Class II							
Overvoltage class (output AC)	Class II							
Night Function	Supported							
Communication System	RS485 Modbus RTU; Modbus TCP; Ethernet							
	Connectable by PPC or CCI							
Environment Category	Outdoor installations							
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