


Product			page
Inverters	- Socomec		G-1
Load break switches (Isolators)	- Socomec		G-2
Fuses	- df		G-3
Fuse bases	- df - Wohner		G-3 G-5
Surge protection	- CPT - Dehn		G-4 G-5
Connectors	- Wieland		G-6
Cable	- Prysmian		G-6



SUNSYS-H30i

new

Socomec SUNSYS photovoltaic inverters provide maximum quality and energy efficiency for all types of PV systems. The inverter is a key element of any photovoltaic installation, converts DC current produced by PV panels into AC current and is injected into the electrical grid. PV inverters have special characteristics distinguishing them from more conventional systems. Socomec SUNSYS PV inverters provide ultra high-performance together with highly reliable DC/AC conversion for specific requirements of PV energy production.

SUNSYS-H (Home) single phase crucial for photovoltaic system performance, SUNSYS H inverters are specific to residential photovoltaic applications. Compatible with multiple configurations of solar modules, they have increased conversion efficiency for maximum energy output.

- Output voltage 230 V single-phase
- Transformerless design provides high conversion efficiency
- LCD synoptic panel for simple and immediate system monitoring
- Suitable for harsh environments (IP65) can be mounted outdoors
- RS485 communication ports

type	output (kW)	IP rating	description	dimensions (mm)		
				(H)	(W)	(D)

SUNSYS H30 *single phase photovoltaic inverter*

The SUNSYS H30 inverter is the ideal solution for residential photovoltaic installations up to 3 kW light and robust, quick and easy to install in all operating conditions.

- Input voltage range 150 to 600 Vdc (*start up voltage 210 Vdc*)
- Integrated data logger with data storage on MicroSD card
- 97.10% maximum efficiency
- WiFi connection (*option*) with integrated Web Server

SUNSYS-H30	3 kW	IP65	SUNSYS Home PV Inverter	569	350	205
-------------------	------	------	-------------------------	-----	-----	-----

Complete with connector box for H30 (combiner box)

- Upstream and downstream protection of the inverter
- AC and DC surge protection, DC isolator and AC circuit breaker

SUNSYS-H30i	3 kW	IP65	SUNSYS Home PV Inverter	1130	350	205
--------------------	------	------	-------------------------	------	-----	-----

SUNSYS H50 *single phase photovoltaic inverter*

The SUNSYS H50 inverter is the ideal solution for residential photovoltaic installations up to 5 kW compact inverter with increased energy efficiency and increased power density.

- Input voltage range 200 to 1000 Vdc (*start up voltage 250 Vdc*)
- 97.8% maximum efficiency

SUNSYS-H50	5 kW	IP65	SUNSYS Home PV Inverter	482	470	167
-------------------	------	------	-------------------------	-----	-----	-----

SUNSYS-B (Building) *three phase photovoltaic inverter*

For installations in medium to large commercial installations. SUNSYS B (*building*) inverters are specific to commercial photovoltaic applications. Systems on roofs with large surfaces require additional functions, providing greater power compared to residential systems.

- Input voltage range 200 to 1000 Vdc (*start up voltage 250 Vdc*)
- 98% maximum efficiency
- 2 x independent MPPTs with a pair of input connectors
- Suitable for harsh environments (IP65)
- Equipped with graphic LCD control panel with a datalogger and RS485 connection for simple immediate monitoring of the system

SUNSYS-B12	12 kW	IP65	SUNSYS Building PV Inverter	609	606	289
SUNSYS-B15	15 kW	IP65	SUNSYS Building PV Inverter	960	612	278
SUNSYS-B20E	20 kW	IP65	SUNSYS Building PV Inverter	625	612	278
SUNSYS-B30	30 kW	IP65	SUNSYS Building PV Inverter	960	612	278

* SUNSYS Pro Monitor system monitoring software provided with system

SUNSYS-P (Parks) *three phase photovoltaic inverter*

SUNSYS-P	33-100kW		For solar parks available on request			
-----------------	----------	--	--------------------------------------	--	--	--



SUNSYS-H50



SUNSYS-B15



SUNSYS-P



SIRCO PV manually operated Photovoltaic switches

Photovoltaic energy producers demand equipment which offer high production output together with consistent reliability and safety with low maintenance costs. Equipment has to support specific technical constraints of solar applications and their severe environment. SIRCO PV solar disconnect switches have been specifically tested for use in applications with high performance characteristics which exceed requirements of latest industry standards.

- Patented switching technology
- Fully visualised breaking
- Up to 1500 Vdc
- Handle and shaft to be ordered separately
- Conformity to: IEC/EN 60947-3 / VDE 0660-107 / IEC 60364-4-410 / IEC364-7-712

type	current	poles/ configuration	rated voltage	description	dimensions (mm)		
					(H)	(W)	(D)

SIRCO MC PV load break switches for photovoltaic applications

21PV 3722	25A	2P+, 1P-	1000Vdc	photovoltaic switch	78	52	55
21PV 4754	40A	2P+, 2P-	1000Vdc	photovoltaic switch	78	63	55

SIRCO PV load break switches for photovoltaic applications

26PV 2010	100A	2 pole	1000Vdc	photovoltaic switch	160	180	95
26PV 2016	160A	2 pole	1000Vdc	photovoltaic switch	160	180	95
26PV 2025	250A	2 pole	1000Vdc	photovoltaic switch	160	180	95
26PV 2031	315A	2 pole	1000Vdc	photovoltaic switch	160	180	95
26PV 4040	400A	2P+, 2P-	1000Vdc	photovoltaic switch	160	230	125
26PV 4050	500A	2P+, 2P-	1000Vdc	photovoltaic switch	160	230	125
26PV 4063	630A	2P+, 2P-	1000Vdc	photovoltaic switch	260	290	160
26PV 4080	800A	2P+, 2P-	1000Vdc	photovoltaic switch	260	290	160
26PV 4120	1250A	2P+, 2P-	1000Vdc	photovoltaic switch	288	492	166
26PV 4200	2000A	2P+, 2P-	1000Vdc	photovoltaic switch	380	492	226

Available on request:

- Double switches (to switch two different PV circuits simultaneously)
- With voltage ratings up to 1500 Vdc

Accessories for above switches

type	handle	description	for switch
------	--------	-------------	------------

Handles *direct / internal mounting*

2119 1012	MC0	direct switch mounting handle for switches	25-40A
1112 1111	J1	direct switch mounting handle for switches	100-800A
2799 7012	C2	direct switch mounting handle for switches	1250-2000A

Handles external front operated, door interlocking, padlockable in "off" position (3 padlocks)

2119 3312	S000	external mount door interlocking handle for switches	25-40A
1423 2111	S2	external mount door interlocking handle for switches	100-800A
1443 3111	S4	external mount door interlocking handle for switches	1250-2000A

Shafts

2107 0516	165mm	extension shaft for switches	25-40A
1400 1032	320mm	extension shaft for switches	100-800A
1401 1532	320mm	extension shaft for switches	1250-2000A

Auxiliaries

2119 0001	NO + NC	side mount auxiliary contact for switches	25-40A
2699 0031	1 Ch/Over	side mount auxiliary contact for switches	100-2000A

Terminal shrouds

2194 1004	1 pole	terminal shroud for switches	25-40A
2194 3004	3 pole	terminal shroud for switches	25-40A
2694 4021	1 pole	terminal shroud for switches	100-500A
2694 4051	3 pole	terminal shroud for switches	630-800A

new



491610



485150



373240



373245



354170

PV photovoltaic fuse-links have been developed for safety and economic protection in photovoltaic installations where, due to the increase of power and technologic evolution, no load voltages above 800Vdc are achieved. Also meets requirements for instruments and traction equipment auxiliary circuits. Provides protection against overloads as well as short-circuits.

type	rated current	rated voltage	breaking capacity	dimensions (mm)		description
gPV photovoltaic cylindrical fuse-links				1000Vdc		
10x38 gPV cylindrical fuses						
491601	1A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491602	2A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491604	3A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491605	4A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491606	5A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491610	6A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491615	8A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491620	10A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491625	12A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491630	16A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
491635	20A	1000Vdc	30kA	10 x 38	gPV	photovoltaic fuse link
14x51 gPV cylindrical fuses						
491650	25A	1000Vdc	30kA	14 x 51	gPV	photovoltaic fuse link
491655	32A	1000Vdc	30kA	14 x 51	gPV	photovoltaic fuse link
Fuse holders for PV cylindrical fuse links				1000Vdc		
10 x 38 photovoltaic fuse holders						
485150	32A	1000Vdc	1 pole	10 x 38	gPV	photovoltaic fuse holder
485152	32A	1000Vdc	1 pole	10 x 38	gPV	fuse holder with indication
485151	32A	1000Vdc	2 pole	10 x 38	gPV	photovoltaic fuse holder
14 x 51 photovoltaic fuse holders						
485250	50A	1000Vdc	1 pole	14 x 51	gPV	photovoltaic fuse holder
gPV photovoltaic NH DIN blade fuse-links				1000Vdc		
NH1 gPV fuses						
373210	25A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373215	32A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373225	40A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373230	50A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373235	63A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373240	80A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373245	100A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373250	125A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
373255	160A	1000Vdc	30kA	NH1	gPV	photovoltaic fuse link
NH3 gPV fuses						
373425	200A	1000Vdc	30kA	NH3	gPV	photovoltaic fuse link
373435	250A	1000Vdc	30kA	NH3	gPV	photovoltaic fuse link
373445	315A	1000Vdc	30kA	NH3	gPV	photovoltaic fuse link
Fuse holders for PV NH fuse links				1000Vdc		
354170	160A	1000Vdc	1 pole	NH1	gPV	NH photovoltaic fuse base
354180	630A	1000Vdc	1 pole	NH3	gPV	NH photovoltaic fuse base
Accessories for NH fuses						
326250	160A		1 pole	NH1		partition walls for fuse bases
325005	160A		1 pole	NH1		terminal cover for bases
325018	160A		1 pole	NH1		hinged covers for fuse link
357010	5A	250Vac	1 pole	NH000 - 3		microswitch for NH fuse -links



PSM3-40/1000 PV



Surge protection devices for photovoltaic installations

Due to their location, solar panels and in many cases, the inverters it is connected to are particularly prone to direct or indirect lightning strikes. As PV systems are directly connected to the electrical networks of buildings, surge protection is essential.

- Clear lifetime indication (*on front face*) and optional remote (*IR*) end of life signalling contact
- Meets all current international standards (*IEC 61643 / IEC 62305, etc.*)
- Plug-in cartridges for quick and easy replacement of damaged cartridges
- Suitable for all types of applications: residential, commercial and industrial

type	Iimp L-N (kA)	I _{max} L-N (kA)	Uc volts	Up L-N (kV)	poles	config	width in 18mm
------	---------------	---------------------------	----------	-------------	-------	--------	---------------

Class 2 photovoltaic surge protection devices

Suitable for protection where no external protection is installed. Protection should be installed on the DC as well AC side of an installation.

- High discharge capacity tested with an 8/20 μs waveform: 40kA per phase

600Vdc photovoltaic surge protection device

PSM3-40/600 PV	–	40 kA	700 V	<2.6kV	3	L+/L-	3
PSM3-40/600 PV IR*	–	40 kA	700 V	<2.6kV	3	L+/L-	3

1000Vdc photovoltaic surge protection device

PSM3-40/1000 PV	–	40 kA	1170 V	<4.0kV	3	L+/L-	3
PSM3-40/1000 PV IR*	–	40 kA	1170 V	<4.0kV	3	L+/L-	3

* With signalling contacts for remote indication/monitoring of devices

Class 1+2 photovoltaic surge protection devices (combined in a single device)

Suitable for first level of protection with incoming power supply panels and areas with greater exposure to lightning.

- Multi-pole, modular surge arrester fo use in PV systems
- Capable of protecting equipment from direct lightning strikes
- High discharge capacity 10/350 μs: 12.5 kA per phase

600Vdc photovoltaic surge protection device

PSC3-12.5/600 PV	12.5 kA	65 kA	700 V	<2.6kV	3	L+/L-	3
PSC3-12.5/600 PV IR*	12.5 kA	65 kA	700 V	<2.6kV	3	L+/L-	3

1000Vdc photovoltaic surge protection device

PSC3-12.5/1000 PV	12.5 kA	65 kA	1170 V	<3.6kV	3	L+/L-	3
PSC3-12.5/1000 PV IR*	12.5 kA	65 kA	1170 V	<3.6kV	3	L+/L-	3

* With signalling contacts for remote indication/monitoring of devices

Spare replacement plug-in cartridges for surge arrestors

type	Iimp L-N (kA)	I _{max} L-N (kA)	Uc volts	Up L-N (kV)	for surge protector
------	---------------	---------------------------	----------	-------------	---------------------

Photovoltaic

PSC 12.5/600 PV	12.5 kA	65 kA	700 V	< 1.3 kV	PSC3-12.5 PV
PSC 12.5/1000 PV	12.5 kA	65 kA	1170 V	< 1.8 kV	PSC3-12.5 PV
PSM-40/600 PV	–	40 kA	700 V	< 1.3 kV	PSC3-40 PV
PSM-40/1000 PV	–	40 kA	170 V	< 2.0 kV	PSC3-40 PV



PSC3-12.5/600 PV IR



PSM-40/600 PV



952511

Due to their location, solar panels and in many cases, the inverters it is connected to are particularly prone to direct or indirect lightning strikes. As PV systems are directly connected to the electrical networks of buildings, surge protection is essential.

type	limp L-N (kA)	I _{max} L-N (kA)	U _c volts	U _p (kV)	poles	config	width in 18mm
Class 2 photovoltaic surge protection devices							
<ul style="list-style-type: none"> • Short circuit interruption (SCI) technology for maximum safety in PV systems • Safe replacement of protection modules without arc formation due to integrated DC fuses 							
600Vdc photovoltaic surge protection device							
952511	–	25 kA	300 V	<2.5kV	3	L+/L-	3
952516*	–	25 kA	300 V	<2.5kV	3	L+/L-	3
1000Vdc photovoltaic surge protection device							
952510	–	25 kA	500 V	<4.0kV	3	L+/L-	3
952515*	–	25 kA	500 V	<4.0kV	3	L+/L-	3
1200Vdc photovoltaic surge protection device							
952512	–	25 kA	600 V	<4.5kV	3	L+/L-	3
952517*	–	25 kA	600 V	<4.5kV	3	L+/L-	3

* With signalling contacts for remote indication/monitoring of devices



60 mm – system classic

The 60 mm system is an extremely compact busbar system with 60mm spacing between busbars. Busbars are arranged in horizontal format, permitting simple attachable "clip-on" accessories such as connections for various cable and/or flexible or solid busbars, fuse holders and switches as well as easy connectors which accommodate circuit breakers, contactors etc.



01495

type	for busbar size (mm) width	thick	no. poles	description	amps
Busbar supports 630A					
01495	15-30 mm	5/10 mm	3	universal busbar support	630A
Wöhner busbar fuse holders for 10 x 38 fuses					
<ul style="list-style-type: none"> • Clip on bus bar - 30 Amp 1000 V rating • Width x height x depth (mm): 23 x 79 x 73 • Main body: temperature stability 125°C, self-extinguishing in acc. to UL 94, creepage resistance CTI 200, halogen-free • Fuse carrier: temperature stability 140°C, self-extinguishing in acc. to UL 94, creepage resistance CTI 200, halogen-free" UL E342576, Category: IZMR2 					
31572	use on 20 x 5/10 mm busbars				
31570	use on 30 x 5/10 mm busbars				



31572



PST 40i 1 pole connector for photovoltaic systems

- Easy installation with only a few components
- Rated voltage: 1.000V IEC/CEI TUV (test voltage 6kV)
- UV protection: F1 flammability class UL94-V2
- High IP Protection degree: IP 67
- TUV-tested compatibility to mate with competitive products
- Very low contact resistance of < 0.15 mΩ with **solid, silver plated brass turned contacts**
- High current-carrying capacity 4.0mm² 32A (unaffected by current curve up to 85°C)
6.0mm² 40A (unaffected by current curve up to 85°C)
- Approvals: TUV to DINVDE V0126-3/12.06, EN50521, UL 486A-486B/486D
CSA-C22.2 No. 65-03/No. 198.2-05

type	amps mm ²	poles Ø mm	wire hole Ø	for cable	description	panel
------	----------------------	------------	-------------	-----------	-------------	-------

PST 40i connector bodies (to be completed by crimp contact pins)

In-line connectors

96.111.0053.1	40A	1 pole	4~6 mm ²	5~7	female connector housing	-
96.112.0053.1	40A	1 pole	4~6 mm ²	5~7	male connector housing	-

Panel mount connectors panel mounted through 18.2mm hole

96.111.1053.1	40A	1 pole	4~6 mm ²	5~7	female connector housing	18.2
96.112.1053.1	40A	1 pole	4~6 mm ²	5~7	male connector housing	18.2

Crimp contact pins solid, silver plated brass turned contacts

	amps mm ²	poles	wire hole Ø	for cable	description	qty
Supplied in standard packs of 100 pcs per bag						
02.125.8202.8	32A	1 pole	4.0 mm ²	-	female crimp contact pin	(100)
02.125.8302.8	40A	1 pole	6.0 mm ²	-	female crimp contact pin	(100)
05.545.2202.8	32A	1 pole	4.0 mm ²	-	male crimp contact pin	(100)
05.545.2302.8	40A	1 pole	6.0 mm ²	-	male crimp contact pin	(100)

Accessories for above PV connectors

05.568.2756.0	safety locking clip for PST connectors (only openable with screwdriver)	(100)
05.502.1600.0	extraction tool (for removing contact pins from housing for inspection)	ea
99.629.0000.0	crimping tool kit for 4~10mm ² contact pins for PST 40 connectors	ea
Z5.566.6380.0	protection cover for unplugged female connector (with secure string)	ea
Z5.566.6480.0	protection cover for unplugged male connector (with secure string)	ea

Photovoltaic cable 4~16mm² single core (on drums of 3000 meters)

Manufacturer: Prysmian Kabel and Systeme GmbH
 Brand name: TECSUN
 Design ID: PV1-F
 Standards: DIN/VDE 0282 sect.13, HD22.13, VDE reg. no. 7985.
 TUV certificate no. R 60010750-000, UL 4703

- VDE and TUV tested EC declaration of conformity no. 03CE 004, UL 4703
- Expected lifecycle: 30 years when used as specified
- System voltage: DC up to 2kV (test voltage 10kV DC - 15 min)
- Operating Temperature: -40 to +120°C
- Halogen-free, meshed materials for insulation and sheath
- UV and ozone resistant

type	current (A)	section mm ²	outer dia.(mm)	weight kg/km	description
20113500	46A	4 mm ²	5.7 mm	63	1000Vdc photovoltaic cable
20112206	59A	6 mm ²	6.4 mm	85	1000Vdc photovoltaic cable
20112239	82A	10 mm ²	7.8 mm	140	1000Vdc photovoltaic cable
20113997	110A	16 mm ²	9.0 mm	190	1000Vdc photovoltaic cable

Wire stripping tool for solar cables

SE-Strip for standard energy and security cables, double shielded solar cables

For all common security, energy cables and double shielded solar cables

- No adjustment of cutting depth necessary
- Included series wire stopper / length scale 8-10-12 mm
- With convenient pocket clip

30190	SE-Strip 2.5-6	energy / double shielded solar cable	2.5~6mm ²
30200	SE-Strip 10/16	energy / double shielded solar cable	10~16mm ²



Enclosures & climate control

