



PV switch disconnector LS DC

The construction of the switch ensures reliable switching up to 1500V.
 The construction of the contacts and the material selection guarantee that no oxidation (small switching frequency develops, and is thus prevented inadmissible heating-up).
 The switch disconnecter has 2, 4 or 4+2 contacts, by serial / parallel wiring of the contacts the contact rating will be increased.
 The switching speed at the manually operated handle does not have an effect on the switching attitude of the contacts.

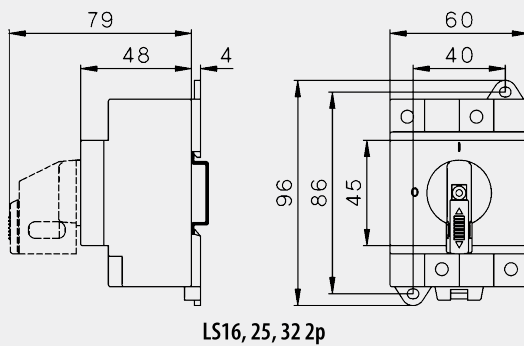
General characteristics	
Rated voltage	≤ 1500V d.c.
Rated current	≤ 58A
Standards	IEC 60364-7-712
Application	For interrupting the DC/AC inverter from the solar panels



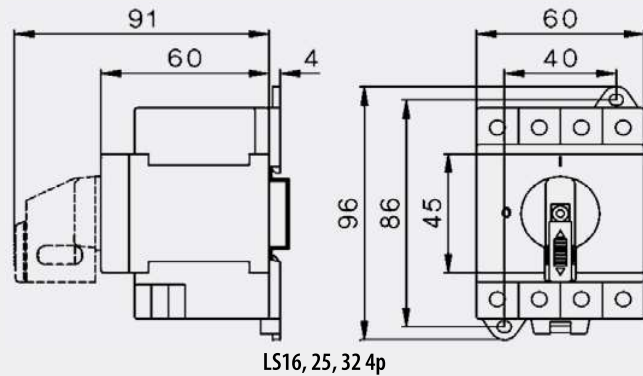
PV switch disconnecter for photovoltaic systems				
Code	Type		Weight [g]	Packaging [pcs]
004660060	LS16 SMA A2	2-pole	150	1
004660061	LS25 SMA A2			
004660062	LS32 SMA A2			
004660063	LS16 SMA A4	4-pole	150	1
004660064	LS25 SMA A4			
004660065	LS32 SMA A4			
004660066	LS32 SMA A4+2	4+2 pole	430	100
004660067*	LSV-B1	-	6,6	

Switch disconnectors "LS.." are switch gears for interrupting DC/AC-inverter from the solar-panels.
 Photovoltaic-installations have to be equipped with DC-isolators according to IEC 60364-7-712.
 *Insulated Jumper

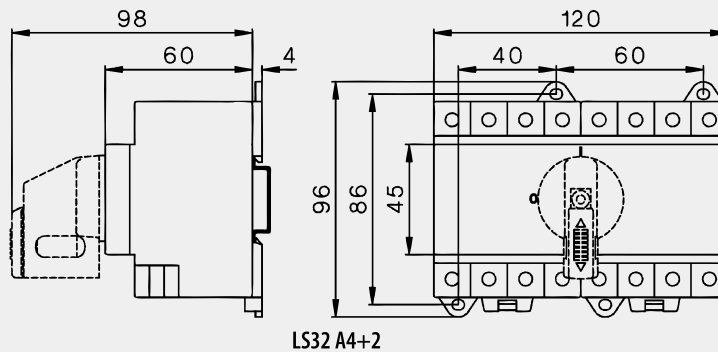
LS32 SMA A4+2 has already installed jumpers for series and parallel connection.



LS16, 25, 32 2p

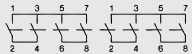


LS16, 25, 32 4p



LS32 A4+2



			LS16 [A]		LS25 [A]		LS32 [A]	
			DC21B	DC22B	DC21B	DC22B	DC21B	DC22B
	2 pole in series A2	500V DC	16	7	25	8	32	9
		600V DC	16	5,5	25	6	32	6,5
		800V DC	16	2	20	2,5	21	3
		1000V DC	9	1	11	1,5	13	2
		1200V DC	6	-	8	-	10	-
		1500V DC	3	-	4	-	5	-
	4 poles in series A4	500V DC	16	16	25	25	32	32
		600V DC	16	16	25	25	32	27,5
		800V DC	16	11,5	25	12	32	12,5
		1000V DC	16	8	25	9	32	10
		1200V DC	16	-	25	-	32	-
		1500V DC	16	-	20	-	23	-
	4 poles in series + 2 poles parallel A4+2	500V DC		-		-	58	-
		600V DC		-		-	58	-
		800V DC		-		-	58	-
		1000V DC		-		-	58	-
		1200V DC		-		-	50	-
		1500V DC		-		-	23	-
Rated conditional short-circuit current		kAeff	5					
Max. fuse size gL (gG)		A	40		63		80	
Mechanical life		x10 ³	10					
Rated short-time withstand current (1s) I _{cw}	A2, A4, A6, A8	A	800		900		1000	
	A2+2, A3+2, A4+2	A	1300		1500		1700	
Short circuit making capacity I _{cm}	A2, A4, A6, A8	A	800		900		1000	
	A2+2, A3+2, A4+2	A	1300		1500		1700	
Maximum cable cross sections including jumper LSV-B1	solid or stranded	mm ²	4 - 16					
	flexible	mm ²	4 - 10					
	flexible (+ multicore cable end)	mm ²	4 - 10					
	Size of terminal screw		M4 Pz2					
	Tightening torque	Nm	1,7 - 1,8					
Maximum cable cross sections 2 cables per clamp without jumper LSV-B1 / LSV-B2	solid or stranded	mm ²	16+(1,5-2,5) / 10+(1,5-6) / 6+(1,5-10) / 4+(1,5-10)					
	flexible & flexible + multicore cable end	mm ²	16+(1,5-2,5) / 10+(1,5-4) / 6+(1,5-6)					
	stranded	AWG	8+(16-12) / 10+(16-10) / 12+(16-8) 14+(16-8)					
	solid	AWG	10+(16-12) / 12+(16-10) 14+(16-10)					
Maximum ambient temperature	Operation	open	°C	-40 ... +65				
		closed	°C	-40 ... +45				
	Storage		°C	-50 ... +90				
Power loss per switch at I _{e max}	A2	(A)/W	(16) / 1		(25) / 2,3		(32) / 3,7	
	A4	(A)/W	(16) / 2		(25) / 4,6		(32) / 7,4	
	A6	(A)/W	(16) / 3		(25) / 6,9		(32) / 11,1	
	A8	(A)/W	(16) / 4		(25) / 9,2		(32) / 14,8	
	A2+2	(A)/W	(29) / 1,5		(45) / 3,7		(58) / 6	
	A3+2	(A)/W	(29) / 2,3		(45) / 5,6		(58) / 9	
	A4+2	(A)/W	(29) / 3		(45) / 7,4		(58) / 12	
Contact resistance per pole		mΩ	1,75					

Because of very high breaking point capacity, switch disconnectors "LS..." are suitable for many different operating conditions.