

Other products for photovoltaic installations

- DC**
- Switch - disconnectors (manual or motorized) up to 1000 Vdc / 1250 A
 - Changeover switches (manual or motorized) up to 1000 Vdc / 1250 A for grounding systems
 - DIN fuse-links up to 1100 Vdc / 400 A
 - DIN fuse holders 1000 Vdc / up to 400 A
 - Cylindrical fuse-links 900-1000 Vdc / up to 25/20 A
 - Cylindrical fuse holders up to 1000 Vdc / 20 A
 - Combiner boxes

- AC**
- Switch - disconnectors (manual or motorized)
 - Switch - disconnector fuses
 - Changeover switches (manual or motorized)
 - Fuse-links and fuse holders
 - Cam switches



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DC compact switch



TDM-TFV-ENG-01 2011
COD. 01004013

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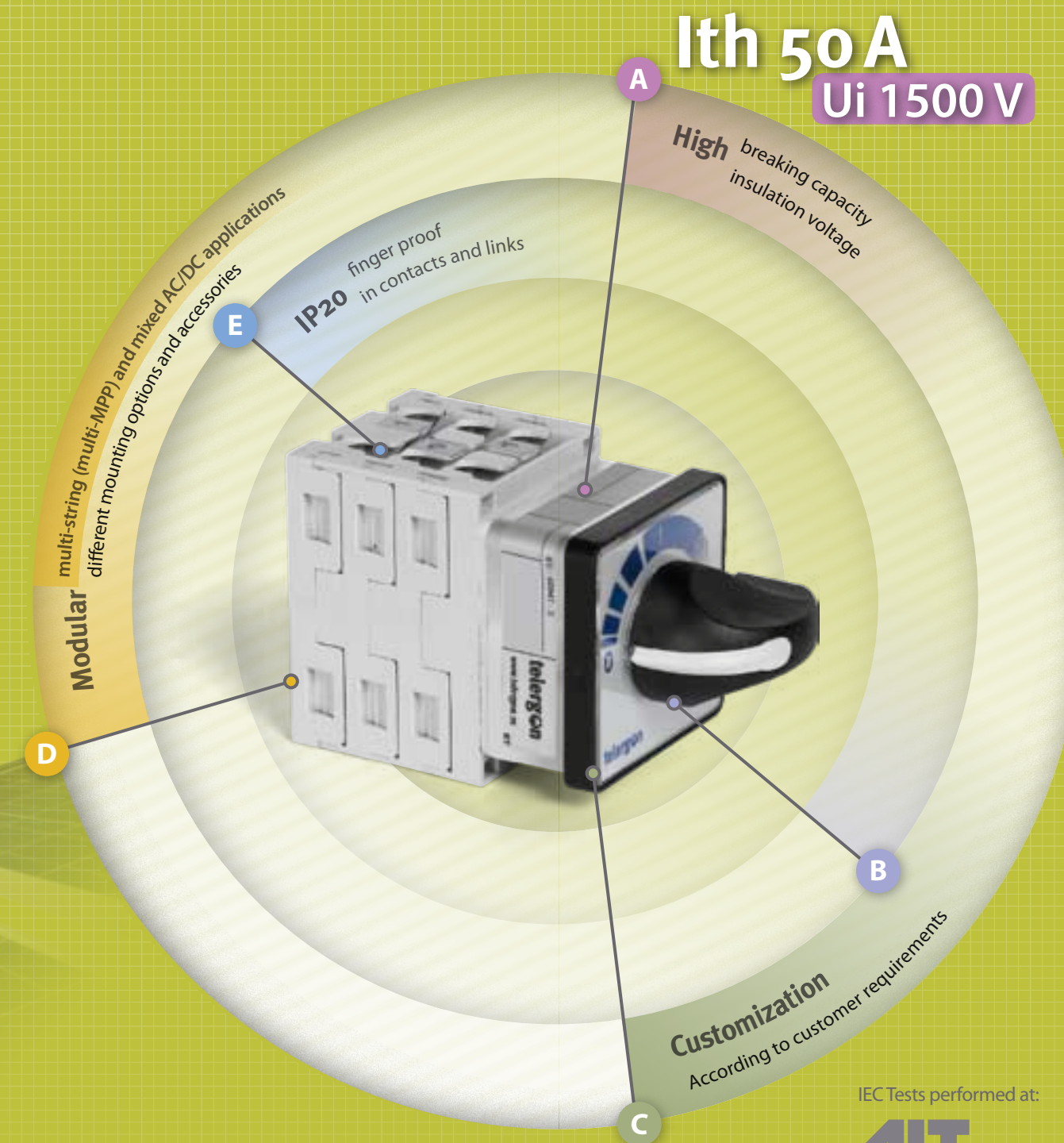
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TFV
DC compact
switch

The new TFV compact switch is the response to the latest renewable energy sector requirements, specially for DC photovoltaic applications and others in AC.



Telergon is able to offer high mechanical and electrical performances with a reduce sized modular switch.

The TFV switch has knife-type contacts and very low resistive connections in order to achieve higher operational efficiency.

Its reliable switching mechanism allows quick making and breaking operations which are necessary to extinguish the electric arc in DC applications.

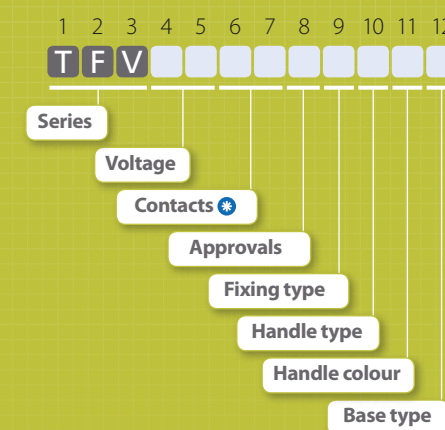
Plastic components are halogen free and all TFV parts comply with RoHS Directive.

Thanks to its modular design, Telergon TFV is suitable for multi-string (multi-MPP) switching including mixed AC/DC applications.

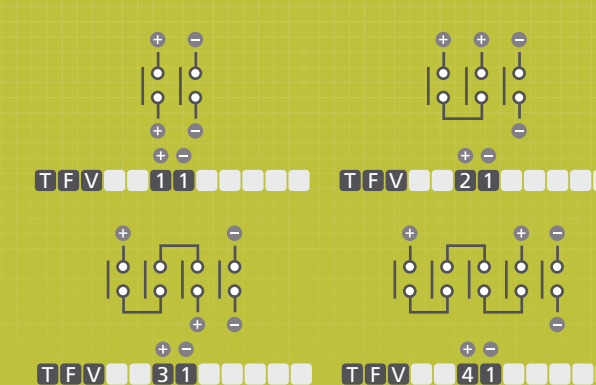
TFV compact switch is available in different options depending on mounting requirements. Its wide portfolio of accessories is compatible with other Telergon ranges.

cULus on progress

Product codification



Contacts (examples)



General electrical features		
As per IEC-EN-UNE-60947-1 IEC-EN-UNE-60947-3		
Ue max	V	1000
Ie max	A	50
Ui	V	1500
Short-circuit making capacity	Icm	A 1450
Rated short-time withstand current (1sec)	Icw	A 1000
Rated short-time withstand current (1 hour)		A 62,5
Number of mechanical operations		30000
Connection capacity		
Rigid copper cable	mm²	2x6
Flexible copper cable	mm²	2x6
Fork terminals 10 mm² (consult)	mm²	1x10
Fork terminals 16 mm² (consult)	mm²	1x16
Tightening torque (min-max)	N-m	1,5 - 2
Operation torque	N-m	2



Rear mounting with screws

2 or 4 hole panel fixing directly on the switch
External plate and handle



Rear mounting - quick fixing

Diameter 22 hole quick fixing
External plate and handle



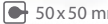
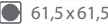
Base mounting - direct handle

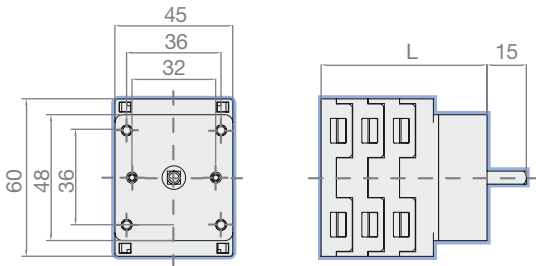
Base mounting on a DIN rail or 2 hole panel fixing
Direct handle



Base mounting - panel handle

Base mounting on a DIN rail or 2 hole panel fixing
External handle door-interlock

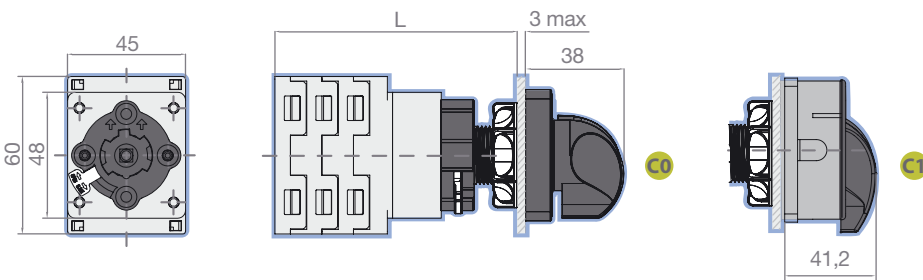
								
				 50x50 mm	 50x50 mm	 50x50 mm	 61,5x61,5 mm	 61,5x61,5 mm
Ue	Ie	Contacts	Chambers	Black standard handle C0	Padlockable handle D704 C0 black/grey	Padlockable handle D704 C0 red/yellow	Padlockable handle D704 C1 black/grey	Padlockable handle D704 C1 red/yellow
600 Vdc	DC21B – 25A	1 + 1	2	TFV0611EE1N1	TFV0611EE6N1	TFV0611EE6RD	TFV0611EE7N0	TFV0611EE7R0
	DC21B – 50A	2 + 1	3	TFV0621EE1N1	TFV0621EE6N1	TFV0621EE6RD	TFV0621EE7N0	TFV0621EE7R0
800 Vdc	DC21B – 10A	1 + 1	2	TFV0811EE1N1	TFV0811EE6N1	TFV0811EE6RD	TFV0811EE7N0	TFV0811EE7R0
	DC21B – 32A	2 + 1	3	TFV0821EE1N1	TFV0821EE6N1	TFV0821EE6RD	TFV0821EE7N0	TFV0821EE7R0
	DC21B – 50A	3 + 1	4	TFV0831EE1N1	TFV0831EE6N1	TFV0831EE6RD	TFV0831EE7N0	TFV0831EE7R0
1000 Vdc	DC21B – 20A	2 + 1	3	TFV1021EE1N1	TFV1021EE6N1	TFV1021EE6RD	TFV1021EE7N0	TFV1021EE7R0
	DC21B – 40A	3 + 1	4	TFV1031EE1N1	TFV1031EE6N1	TFV1031EE6RD	TFV1031EE7N0	TFV1031EE7R0
	DC21B – 50A	4 + 1	5	TFV1041EE1N1	TFV1041EE6N1	TFV1041EE6RD	TFV1041EE7N0	TFV1041EE7R0



		Length (mm)					
N° Chambers		2	3	4	5	6	+1
L		51,30	63,30	75,30	87,30	99,30	12,00



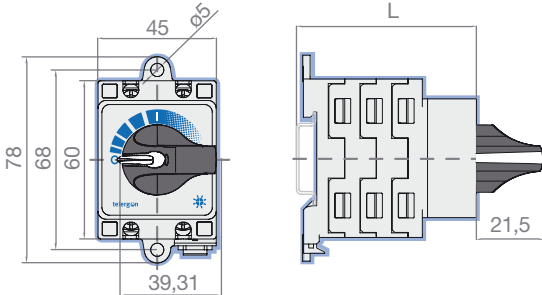
Ue	Ie	Contacts	Chambers	Black standard handle C0	Padlockable handle D704 C1 black/grey	Padlockable handle D704 C1 red/yellow		
600 Vdc	DC21B – 25A	1 + 1	2	TFV0611EC1N1	TFV0611EC7N0	TFV0611EC7R0		
	DC21B – 50A	2 + 1	3	TFV0621EC1N1	TFV0621EC7N0	TFV0621EC7R0		
800 Vdc	DC21B – 10A	1 + 1	2	TFV0811EC1N1	TFV0811EC7N0	TFV0811EC7R0		
	DC21B – 32A	2 + 1	3	TFV0821EC1N1	TFV0821EC7N0	TFV0821EC7R0		
1000 Vdc	DC21B – 50A	3 + 1	4	TFV0831EC1N1	TFV0831EC7N0	TFV0831EC7R0		
	DC21B – 20A	2 + 1	3	TFV1021EC1N1	TFV1021EC7N0	TFV1021EC7R0		
	DC21B – 40A	3 + 1	4	TFV1031EC1N1	TFV1031EC7N0	TFV1031EC7R0		
	DC21B – 50A	4 + 1	5	TFV1041EC1N1	TFV1041EC7N0	TFV1041EC7R0		



		Length (mm)							
N° Chambers		2	3	4	5	6	7	8	
L		80,10	92,10	104,10	116,10	128,10	140,10	152,10	



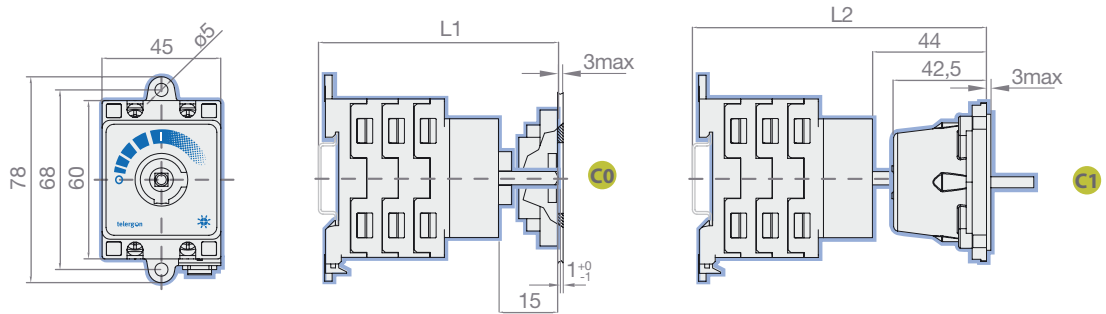
Ue	Ie	Contacts	Chambers	Black standard handle C0	Padlockable handle D905 C0 black/grey		
600 Vdc	DC21B – 25A	1 + 1	2	TFV0611EHPN0	TFV0611EHRN0		
	DC21B – 50A	2 + 1	3	TFV0621EHPN0	TFV0621EHRN0		
800 Vdc	DC21B – 10A	1 + 1	2	TFV0811EHPN0	TFV0811EHRN0		
	DC21B – 32A	2 + 1	3	TFV0821EHPN0	TFV0821EHRN0		
1000 Vdc	DC21B – 50A	3 + 1	4	TFV0831EHPN0	TFV0831EHRN0		
	DC21B – 20A	2 + 1	3	TFV1021EHPN0	TFV1021EHRN0		
	DC21B – 40A	3 + 1	4	TFV1031EHPN0	TFV1031EHRN0		
	DC21B – 50A	4 + 1	5	TFV1041EHPN0	TFV1041EHRN0		



		Length (mm)					
N° Chambers		2	3	4	5	6	
L		53,50	65,50	77,50	89,50	101,50	



Ue	Ie	Contacts	Chambers	Padlockable handle & door interlock D704 C0 black/grey	Padlockable handle & door interlock D704 C0 red/yellow	Black standard handle & door interlock D501 C1	Padlockable handle & door interlock D704/D501 C1 black/grey	Padlockable handle & door interlock D704/D501 C1 red/yellow
600 Vdc	DC21B – 25A	1 + 1	2	TFV0611EF6N1	TFV0611EF6RD	TFV0611EF1N1	TFV0611EF7N0	TFV0611EF7R0
	DC21B – 50A	2 + 1	3	TFV0621EF6N1	TFV0621EF6RD	TFV0621EF1N1	TFV0621EF7N0	TFV0621EF7R0
800 Vdc	DC21B – 10A	1 + 1	2	TFV0811EF6N1	TFV0811EF6RD	TFV0811EF1N1	TFV0811EF7N0	TFV0811EF7R0
	DC21B – 32A	2 + 1	3	TFV0821EF6N1	TFV0821EF6RD	TFV0821EF1N1	TFV0821EF7N0	TFV0821EF7R0
1000 Vdc	DC21B – 50A	3 + 1	4	TFV0831EF6N1	TFV0831EF6RD	TFV0831EF1N1	TFV0831EF7N0	TFV0831EF7R0
	DC21B – 20A	2 + 1	3	TFV1021EF6N1	TFV1021EF6RD	TFV1021EF1N1	TFV1021EF7N0	TFV1021EF7R0
	DC21B – 40A	3 + 1	4	TFV1031EF6N1	TFV1031EF6RD	TFV1031EF1N1	TFV1031EF7N0	TFV1031EF7R0
	DC21B – 50A	4 + 1	5	TFV1041EF6N1	TFV1041EF6RD	TFV1041EF1N1	TFV1041EF7N0	TFV1041EF7R0



		Length (mm)							
N° Chambers		2	3	4	5	6	+1		
L1		77,30	89,30	101,30	113,30	125,30	12,00		
L2		106,30	118,30	130,30	142,30	154,30	12,00		