ISOLATORS-PH Series

PHOTOVOLTAIC/DC SWITCH DISCONNECTORS THERMOPLASTIC INSULATED ENCLOSURE 10A-40A (800V DC)



VERSIONS



Scame embraces completely the renewable energy sources philosophy and the respect for the environment.

In our production plant and office building we have installed 250kWp of photovoltaic system. We follow up this field in several countries with a wide range of products.

From our experience is born the new range of DC Isolators specific for photovoltaic systems.

In according to the IEC 60364-7-712, in every photovoltaic installation it is necessary to isolate the photovoltaic panel from the rest of the system, DC Isolators must have a higher performance than the traditional AC Isolators because breaking direct current is more difficult than breaking alternating current, and furthermore in a photovoltaic system up grading constantly our products, following and anticipating the voltage can reach even 800V.

been set up focusing on all of the main photovoltaic installations in compliance with IEC 60364-7-712. in order to get a range as essential as possible, simplify the Finally in the photovoltaic range it is available a huge range of choice of the customer and for have the maximum quality and water tight cabinets and consumer unit suitable for make technical characteristics. In the meantime we are improving and distribuition board & export control.

REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear. Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

IEC 60364-7-712

Requirements for special installations or locations Solar photovoltaic (RV) power supply systems.

EN 60529 Degrees of protection provided by enclosure.

CABLE INLETS

Photovoltaic/DC switch disconnectors thermoplastic insulated enclosure 3 and 4 poles

Size	Rated current (A)	Rated voltage (V)	Nr of poles in series	Enclosure dimensions	Cable entries				
					Тор	1xM20+1xM25	Knock-outs		
1	16	450V	4	150x105x82	Bottom	1xM20+1xM25	Knock-outs		
					Rear	1xM20+1xM25	Knock-outs		
2	15-20	800V	3-4-5	150x105x100	Тор	-	Blank side (°)		
					Bottom	-	Blank side (°)		
					Rear	-	Blank side (°)		
					Right	M25	Knock-out		
					Left	M25	Knock-out		
					Тор	2xM32	Knock-outs		
3	25-30	800V	6-8	210x155x107	Bottom	Bottom 2xM32			
					Rear	-	Blank side (°)		
4	40	800V	0	200/2200/120	Тор	-	Blank side (°)		
4	40		ð	300X220X120	Bottom	-	Blank side (°)		

(°) Perforated or threaded entries on request.

APPLICATION EXAMPLES

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the change that the market requires due to the incentives The current and voltage values changes depending on the available. Scame ISOLATORS Series includes also a complete combination of the photovoltaic cells. DC Isolator range has range of AC Isolators, essential to make a photovoltaic system

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bas	ses		Solvents			Mineral	Rayons
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	oil	ŪV
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

TECHNICAL CHARACTERISTICS

bles in series:	3P-4P-5P-6P-8P
ated current (800V):	10A-15A-20A-25A-30A-40A
otection degree:	IP65
perating ambient temperature coording to the reference andard:	-5°C +40°C
in-Max. operating nbient temperature:	-25°C +60°C
degree:	IK08
aterial:	Thermoplastic
sulation class:	Class II (double insulation)
low wire test:	650°C (enclosure) 850°C (switch)



■ TECHNICAL DATA DC SWITCH DISCONNECTORS FOR PHOTOVOLTAIC DC APPLICATION

				16A	15A	20A	25A	30A	40A
Rated insulation voltage Ui			VAC	690	1500	1500	1500	1500	1500
Rated impulse withstand voltage Uimp			kV	4	8	8	8	8	8
Thermal current Ith/Ithe			A	30	63	63	63	63	125
0		300V	A	32	-	-	-	-	-
- 10 Ut		400V	A	-	30	35	40	60	80
curre	DC21A	450V	A	16	-	-	-	-	
tional	Resistive loads, including moderate overloads	500V	A		30	35	40	45	65
Rated opera		600V	A		20	25	40	40	60
		750V	A		15	20	25	30	40
		800V	A		15	20	25	30	40
Rated s	Rated short time withstand current Icw (1s)			400	1100	1100	1100	1100	3000
Flexible wire			mm ²	1.5-10	16	16	16	16	70
Rigid wire			mm ²	1.5-10	16	16	35	16	70

POSSIBLE CONTACT WIRINGS

SWITCH LINKING

series. In this way the incoming and the outgoing can chosen configuration.

In order to make easier the work of the installer, it is be varied both on the top side and on the bottom side. possible to choose the manner of wiring of the poles in In the packaging jumpers are supplied to cover the







590.DCGE0820 - (5 POLES IN SERIES) - 4 JUMPERS SUPPLIED



590.DCGE0825 - (6 POLES IN SERIES) - 5 JUMPERS SUPPLIED



590.DCGE0830 - (8 POLES IN SERIES) - 8 JUMPERS SUPPLIED

