

GDC-40

Details: DC Disconnect switch up to 1000V 32A features an IP66 waterproof enclosure with excellent protection level, high-quality plastic material, UV resistance, and options for 2-4 poles, suitable for distribution boxes. The LONQ-40 series DC isolation switch comes with an air valve for improved air circulation and temperature reduction.

- which are suitable for residential or commercial photovoltaic systems ranging from 1 kW to 20 kW, placed between the photovoltaic modules and inverters.
- optional MC4 plugs with adapters or cable sealing glands, ensuring easy installation, operation, connection, and space savings.
- The arc-fault duration is less than 8ms, making the solar system safer.
- Please refer to the product parameter table for detailed specifications.

DC Isolated Switch



Technical data

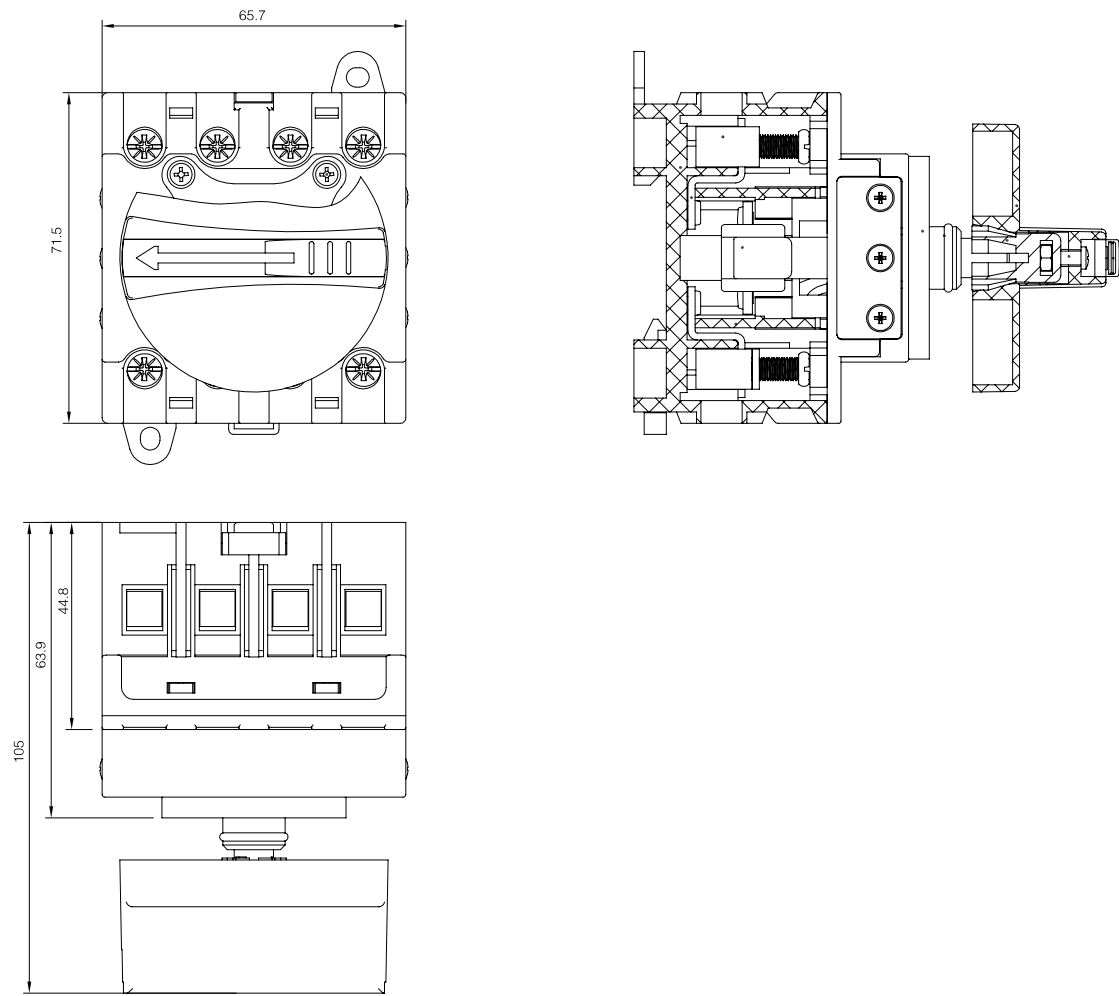
Testing Complies with AS 60947.3:2018,EN IEC 60947-3 :2021,Utilization Category, DC-PV2

Main Parameters		unit	GDC-40
Rated insulation voltage	Ui	V	1500
Rated thermal current	Ith	A	32
Rated impulse withstand voltage	Uimp	V	8000
Rated short-circuit making capacity	Icw	A	1000
Maximum cable cross sections (incl. jumper)			
Solid or standard		mm <sup>2</sup>	2.5-6
Flexible		mm <sup>2</sup>	2.5-6
Flexible (+ multicore cable end)		mm <sup>2</sup>	2.5-6
Torque			
Tightening torque terminal screws M4.		Nm	1.2-1.8
Tightening torque shell mounting screws		Nm	1.5-2.0
Tightening torque knob screws		Nm	0.5-0.7
Switching on or off Torque		Nm	0.9-1.3
The wiring Torque on Base		Nm	1.1-1.4
General parameters			
Knob positions			OFF at 9 hr , ON at 12 hr
Mechanical life			10000
Number of DC poles			2 or 4
Operation temperature			-40 to +85
Storage temperature			-40 to +85
Pollution degree		°C	2
Overvoltage category		°C	III
IP rating of shafte and mounting nul			IP66


Fuse-link Technical data




Dimensions (mm)




High Craftsmanship AND High Standards




Small volume




Flame retardant material




IP66




Flying Fox Short



Complete accessories



-40°C~+85°C Ambient temperature range


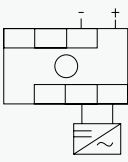
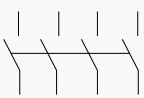
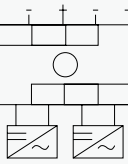
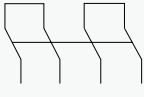


Non-polar design

Testing Complies with AS 60947.3:2018,EN IEC 60947-3 :2021,Utilization Category, DC-PV2					Pole	No. of Strings	Part Number
300V	600V	800V	1000V	1200V			
PV2	PV2	PV2	PV2	PV2			
40	40	25	16	10	2	1	GDC-40-2
40	40	25	16	10	4	1	GDC-40-4
40	40	32	32	32	4	1	GDC-40-4S
40	40	32	32	32	4	1	GDC-40-4B
40	40	32	32	32	4	1	



Switching Configuration

Type	PEDSC 100R/120R	Contacts Wiring graph	Switching example
2-Pole	2		
4-Pole	4		
4-Pole with Input and Output on top	4T		
4-Pole with Input and Output bottom	4B		
4-Pole with Input on top Output bottom	4S		

Fuse-link Technical data

GDC-40



Specifications

Rated Operating Voltage : DC0-1200V	Connection Type:MC20,MC4
Poles: 2P/4P	Solar connector Working Temperature: -5 °C-+60 °C
Max Current: 32A	Standard: IEC 60947-3
Mechanical Life: 10,000 times	Operating Temperature: -40°C to +85°C
IP Rating: IP66	Operating Altitude: 2000 Meter

Main Functions Quickly

Disconnect DC power from your solar array to the charge controller batteries and/or inverter during system installation or any maintenance. It is designed according to IEC60947-1&3 standard photovoltaic DC isolation switch for solar combiner box up to 1000VDC Used to install between the solar panel and the solar charge controller,between the solar panel and the inverter ,between the solar panel and solar panel.

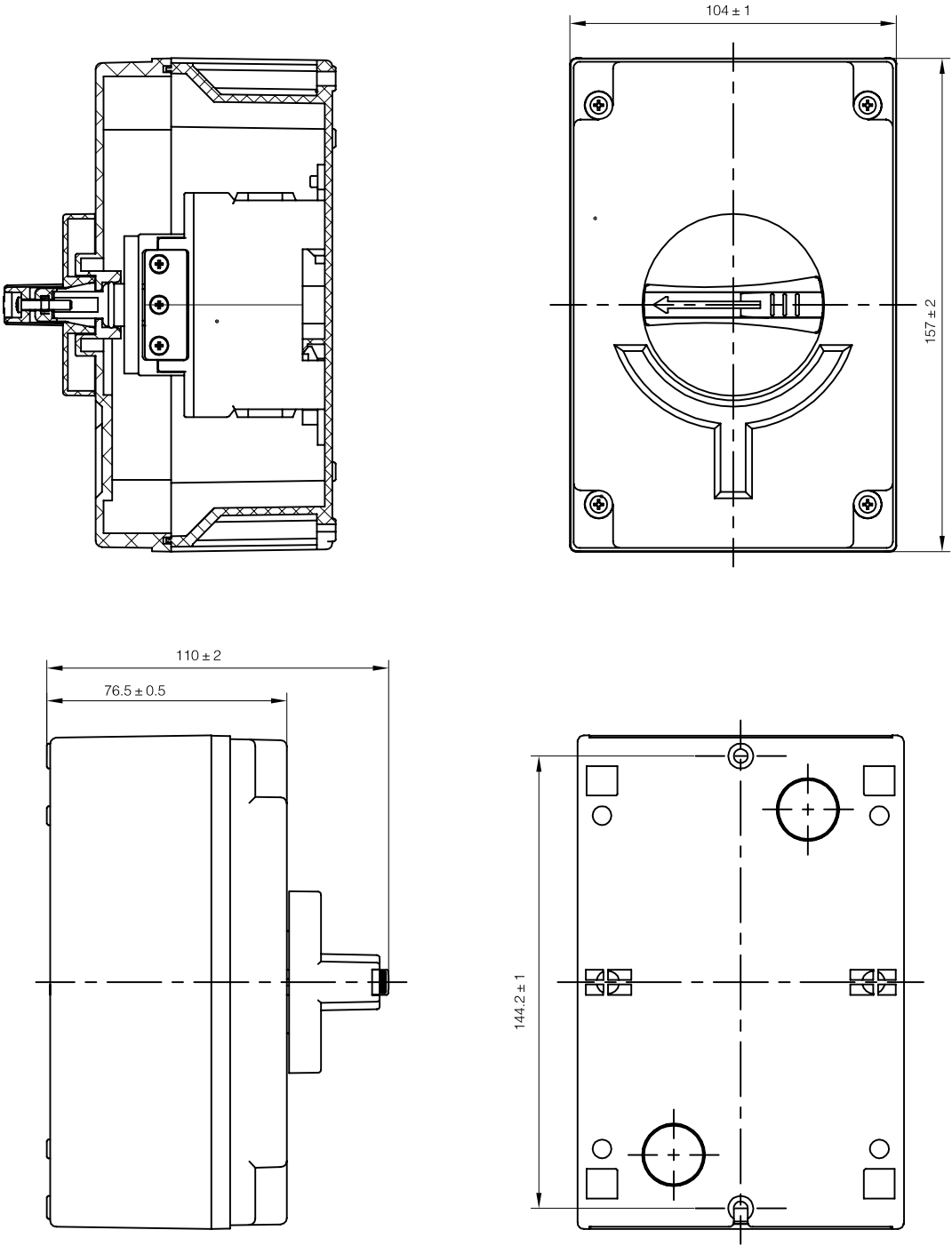
Safe Isolation

Pre-wired DC isolator with MC4 connectors for faster and safer installation. The load is disconnected up to 8 times rated current which is ideal choice for any electrical isolation requirements such as repair, maintenance, inspection, installation, etc HIGH SECURITY This solar disconnect switch provide a Comprehensive Isolation Switch with independent and enclosed form and the padlock make it locks in OFF position and is tamper-proof. Compact design and does not take up too much space. IP 66 waterproof, durable construction excellent weather resistance(-40F-185F) UV resistance UL 746C Suitable for outdoor use Protect your PV DC isolator switch from rain and dust and other weather factors COMPATIBILITY The PV DC isolation switch with solar connector Suitable for solar power system RV, ship and OFF-grid/ON-grid solar system. Specially designed for home solar systems and commercial solar systems.

Product Characteristics

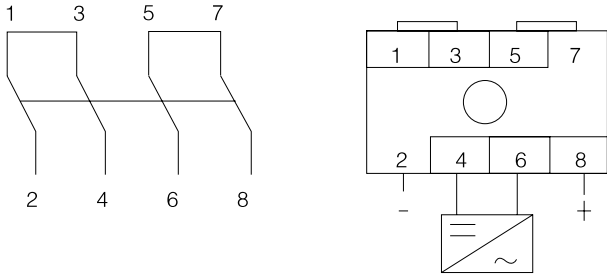
- Used to Install Between the Solar Panel and the Solar Charge Controller, Between the Solar Panel and the Inverter
- Safe Designed for Home Solar System , Commercial Solar System
- Free System Design and Technical Support Solar Off-Grid System and On-Grid System
- 32 A DC Disconnect Switch

Dimensional Drawing(mm)

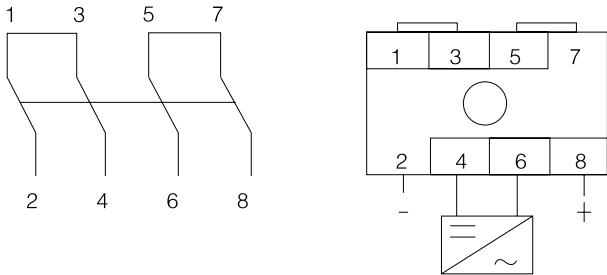


Enclosure DC Isolator

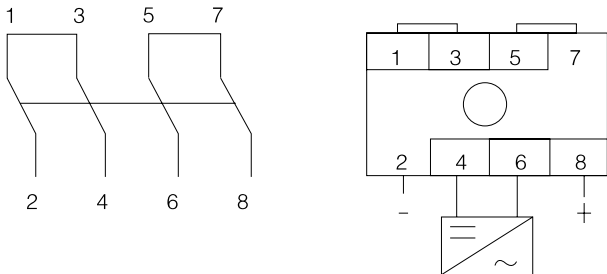
GDC-40.F



GDC-40.M12

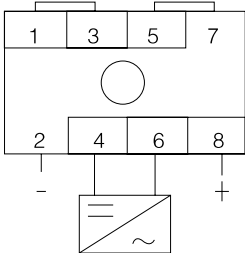
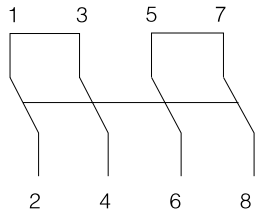


GDC-40.MC4



Enclosure DC Isolator

GDC-40.M20



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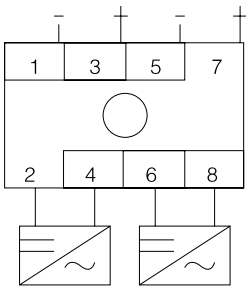
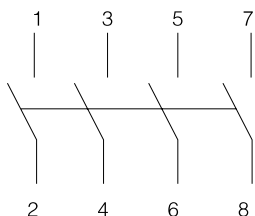
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GDC-40.2MC4



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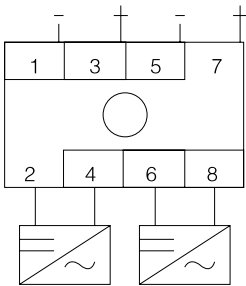
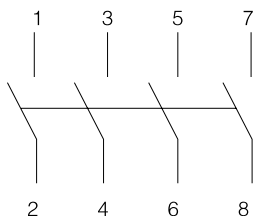
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GDC-40.2-2



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