SOLAR ELECTRIC

PLENTICORE G3

KOSTAL BackUp Switch



Data sheet

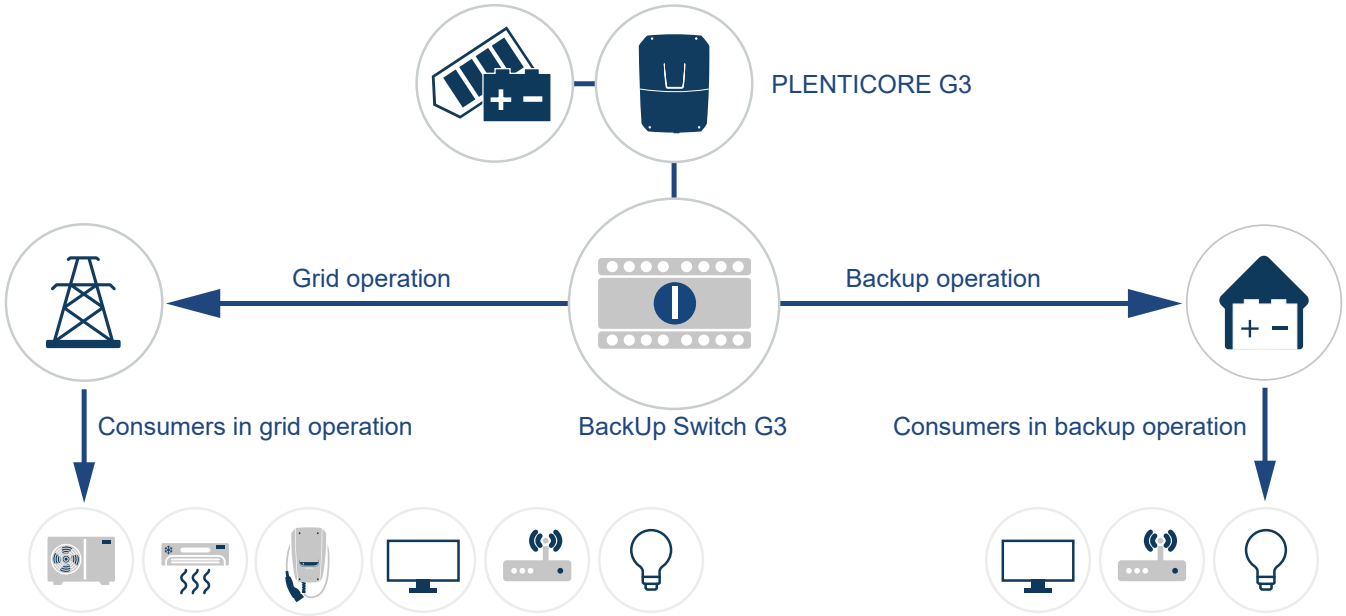
KOSTAL BackUp Switch: Manual switch

With the manual KOSTAL BackUp Switch G3, you can continue to supply your home with energy in the event of a power failure in combination with the PLENTICORE G3 series, solar energy and a connected battery.
To do this, the KOSTAL BackUp Switch G3 is installed in the building services and connected to the inverter.
In the event of a power failure, you simply switch manually to the domestic grid and the inverter continues to supply you with energy.

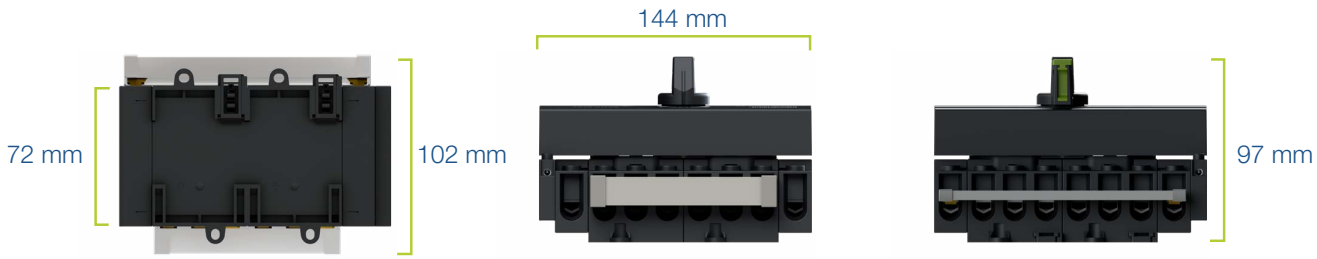


- Manual three-phase mains changeover switch
  Compatible with all PLENTICORE G3 series inverters
  Integrated cable break detection for the evaluation signal of the switch position
  Compact and space-saving installation: only 8 partition units are required. The BackUp Switch therefore fits perfectly on the same top-hat rail as the KOSTAL Smart Energy Meter.
  Can be installed in an existing sub-distribution board or in a separate housing
  Convenient wiring options: One output each for consumers in backup mode and mains operation
  Suitable for house connections up to 63A
  Connection of a local neutral point replica possible

KOSTAL BackUp Switch: Connection overview



KOSTAL BackUp Switch: Compact and rapidly deployable



KOSTAL BackUp Switch: Technical data

General	Unit	
Grid connection		3N~, 230/400 V, 50 Hz
Grid form public grid		TN/TT
Grid form island grid		TN-S
Changeover		manually via rotary switch
Switching type		N leading
Switching angle		90°
Handle interlock		yes, in switch position OFF
Ambient temperature (min.-max.)	°C	open: -25/50, encapsulated: -25/40
Climatic resistance		moist heat, constant, according to DIN IEC 60068-2-78
Mechanical service life		moist heat, cyclical, accordance to DIN IEC 60068-2-30
Input mains side		ja
Output backup loads		ja
Connection star point replica		ja
Output for loads not supplied in backup mode		ja
Connection Evaluation switch position		ja (2-wire)
Width/height/depth	mm	144 x 102 x 97 (8 TE)
Weight	g	520
Legal warranty	year	2
Guidelines/certification		DIN EN IEC 60947-3, DIN EN IEC 60947-6-1, VDE-AR-E 2510-2

Power contacts	Unit	
Device class EN IEC 60947-6-1		PC
Operating voltage Ue	V AC	400
Rated insulation voltage (Ui) / degree of pollution	V AC	400 / 3 - 500 / 2
Surge withstand voltage (Uimp)	kV	4
Continuous current Iu/ Ith/ Ithe	A	63
Operating current Ie, AC-32	A	63
Short-circuit breaking capacity Icm	kA	1,8
Short-time withstand current (1s)	A	750
Isolating property according to EN 60947	V AC	bis 400
Operating power at 50...60 Hz (3-/ 4-pole), AC-23A, 400V	kW	22
Connection cross-section solid or stranded (min-max)	mm^2	6…16
Connection cross-section fine or multi-stranded with wire end ferrule (min-max)	mm^2	4…16
Conductor cross-section star point simulation	mm^2	10…16
Tightening torque	Nm	1,8

Signal/auxiliary contacts	Unit	
Operating voltage Ue	V	30
Continuous current Iu/Ith/Ithe	A	0,1
Connection cross-section solid or stranded (min-max)	mm^2	0,2…2,5
Connection cross-section fine or stranded with ferrule (min-max)	mm^2	0,2…2,5
Tightening torque	Nm	0,5

Services around our products

You can find all further information at www.kostal-solar-electric.com

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