

GC Energy Storage

Low voltage battery series for 1-phase inverters



Energy independence

in case of power outages

High efficiency

over 98% for charge / discharge

Storing sustainable energy

directly from the photovoltaic system

Long life span, safe technology

thanks to lithium-iron-phosphate cells

Easy installation, wide compatibility

with popular solar inverters

More usable capacity

with 100% depth of discharge

Expandable capacity

up to 8 modules (40.96 kWh)¹

Modern design

that match every interior

Eligible for subsidies

10-year warranty

Parameters:

Cell Technology:	LFP (Lithium Iron Phosphate)
Cell Model:	100 Ah / 3,2 V
Cells Configuration:	16S1P
Nominal Capacity:	100 Ah
Rated Energy:	5120 Wh
Initial Internal Resistance:	< 50 mΩ
Nominal Voltage:	51,2 V
Charge Cut-Off Voltage:	59,2 V (total) or 3,7 V (cell)
Discharge Cut-Off Voltage:	43,2 V (total) or 2,7 V (cell)
Standard Charge Current:	20 A
Max. Charge Current:	≤ 100 A
Standard Discharge Current:	50 A
Max. Discharge Current:	≤ 100 A
Depth of Discharge:	100%
Self Discharge:	1% per month (in sleep mode)
Efficiency:	≥ 98% (Charge (0.2C) / Discharge (0.2C))
Scalability ¹ :	Up to 8 modules (40.96 kWh) 1. Through parallel connection when max. output current is equal or smaller than 100A 2. Through bus box (obligatory) when max. output current is higher than 100A
SKU code:	ESGC01
EAN code:	5904326370968

Certification:

Product: CE, IEC 62619:2017, UN38.3

Operating Conditions:

Installation Location:	Indoor (wall-mounted)
Operating Temperature:	-20 ~ +55 °C (-4 ~ 131 °F)
Recommended Operating Temperature:	+15 ~ +30 °C (59 ~ 86 °F)
Charging Temperature:	0 ~ +55 °C (32 ~ 131 °F)
Discharging Temperature:	-20 ~ +55 °C (-4 ~ 131 °F)
Storage Temperature:	+15 ~ +35 °C (59 ~ 95 °F)
Humidity:	10 - 90 %
Altitude Max.:	2000 m
Cooling System:	Passive
Noise:	< 30 dB
Enclosure Protection Rating:	IP20

Physical Characteristics:

Weight:	50 ± 1 kg
Dimensions (L x W x H):	600 x 480 x 135 mm
Enclosure Type:	Painted metal
Enclosure Colour:	Grey

Communication / Connection:

Communication Method:	RS485, RS232
Connection Method:	RJ45 / RJ11
Display:	LCD screen with button

Warranty:

Warranty: 10 years or 15 MWh energy throughput