



## Low Voltage Battery

**LV-05-G2.IG**  
**LV-10-G2.IG**  
**LV-15-G2.IG**  
**LV-20-G2.IG**

### Description

The LV(05-20)G2.IG series is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience.

It is designed with an IP66 rating for more flexible and easier installation.

It has superior performance with a capacity ranging from 5.12 kWh to 20.48 kWh for a single tower and a maximum of 102.4 kWh for 5 towers in parallel, which can meet residential electricity demand.

### Features

**01** LFP with improved safety design

**02** Suitable for indoor/outdoor installation with IP66 design

**03** Quick connector design saves installation time

**04** Self-heating technology improves battery performance

**05** Flexible capacity options from 5.12 kWh to 102.4 kWh

**06** Module level fire protection

# Technical Specifications

Model	LV-05-G2.IG	LV-10-G2.IG	LV-15-G2.IG	LV-20-G2.IG
System Data				
Battery type	LiFePO <sub>4</sub>			
Rated capacity (Ah)	100	200	300	400
Number of modules	1	2	3	4
Total energy (kWh)	5.12	10.24	15.36	20.48
Rated voltage (V)	51.2			
Voltage range (V)	44.8-58.4			
Rated charging/discharging current	0.5C			
Max. continuous charging/discharging current (A)	50	100	150	200
Max. charge/discharge power (kW)	2.56	5.12	7.68	10.24
Peak charge/discharge power (kW)	3.84 (10s)	7.68 (10s)	11.52 (10s)	15.36 (10s)
Communication	CAN, RS485			
Recommended depth of discharge (DOD)	90%			
Max. scalability	5			
Protection				
Overvoltage and undervoltage protection	Integrated			
Overcurrent protection	Integrated			
Overtemperature and undertemperature protection	Integrated			
DC breaker	Integrated			
General				
System dimensions (including base) (W × H × D [mm]) <sup>(1)</sup>	640 × 690 × 145	640 × 1070 × 145	640 × 1450 × 145	640 × 1830 × 145
System weight (including base) (kg) <sup>(1)</sup>	60.5	107	153.5	200
Control box dimensions (W × H × D [mm])	640 × 240 × 145			
Control box weight (kg)	11			
Single PACK dimensions (W × H × D [mm])	640 × 380 × 145			
Single PACK weight (kg)	46.5			
Installation environment	Indoor/Outdoor			
Charging temperature (°C)	0 to +50			
Discharging temperature (°C)	-20 to +50			
Protection degree	IP66			
Cooling	Natural convection			
Altitude (m)	≤4000			
Cycle life	8000 Cycles			
Certification	IEC 62619, UN 38.3, CE-EMC			
Warranty	10 Years			

(1) The actual dimensions and weight may differ. For details, please contact InstaGroup sales.