

External MPPT Charge Controller

Model 150G · 150 kW · 16 PV inputs · Max η 99.26% · IP65



Wall-mounted PV charge controller that couples PV arrays with HELZ energy-storage systems. Buck-boost design keeps battery voltage independent of the PV configuration.

150 kW

Max PV Power

99.26%

Max Efficiency

200–900 V

MPPT Range

IP65

Outdoor-Rated

KEY FEATURES

- ✓ Wall-mounted installation
zero floor space
- ✓ Multiple PV inputs (16 / 12 strings) for multi-angle
panel layouts
- ✓ High conversion efficiency
up to 99.26%
- ✓ Battery voltage independent of PV configuration (buck-boost
converter)
- ✓ Wide DC input range
MPPT 200–900 V, start-up at 250 V
- ✓ IP65 protection for harsh outdoor environments

TECHNICAL SPECIFICATION

Parameter	150G
PV Parameters (PV Port)	
Max Power	150 kW
PV Max Open-Circuit Voltage	1000 V
MPPT Voltage Range	200–900 V
Start-up Voltage	250 V
Number of PV Inputs	16
Max PV Current	18 A × 16
Short-Circuit Current	19.8 A × 16
Energy Storage Parameters (Storage Port)	
Voltage Range	400–950 V
Max Current	288 A
System Parameters	
Dimensions (W × D × H)	780 × 738 × 271 mm
Weight	60 kg
Max Efficiency	99.26%
Protection Rating	IP65
Cooling Method	Air Cooling
Communication	RS485 / CAN
Operating Temperature	–30 °C ~ 45 °C

Parameter	150G
Operating Altitude	4000 m (derated above 2000 m)

Specifications are subject to change without notice.