

PowerRoller Home (Converter)



- IceVortex Battery replacement Technology
The self-developed plug-and-play design makes battery replacement as easy as playing with LEGO.
- "SURGE" the ultra-fast external charge, self-developed ApolloGrid TsunamiCharge™ technology, delivering a full output power up to 10kW.
- Featuring fluid dynamic-inspired design with related IP65 (dust-tight and protected against low-pressure water jets)

Converter

Model	Converter
Battery Input	
Cell type	LiFePO4
Rated battery voltage	550V
Maximum output power	10kW
Maximum charging power	10kW
Inverter Output	
Rated Output Power	10kW
Output Voltage	230Vac (Single Phase) (Configurable for 200/208/220/240Vac)
Rated Frequency	50/60Hz ± 0.3Hz
Maximum Peak Power	20000W (2s)
Switching Time	10ms (Typical Value)
PV Input	
Number of MPPT input strings per group	2
Maximum photovoltaic input power	5500W+5500W
Maximum Input Current	22/22A
Maximum Short-Circuit Current	37A/37A
Maximum Open-Circuit Voltage	500V
MPPT Operating Voltage Range	125-425V
AC Output (Grid-Tied)	
Rated Power	2
Maximum Apparent Power	10000VA
Power Factor	0.8 Leading, 0.8 Lagging
Rated Voltage	220/230Vac
Rated Voltage Frequency	50/60Hz
AC Output Rated Current	43.5Aac
Generator Input	
Input Voltage Range	90-280Vac
Input Frequency Range	50/60Hz
Maximum Bypass Current	63Aac
Frequency	
MPPT Tracking Efficiency	99.9%
Maximum Efficiency	97.5%
European Efficiency	97%
Protection	
PV Surge Protection	Yes
Anti-Islanding Protection	Yes
PV Reverse Polarity Protection	Yes
Insulation Resistance Detection	Yes
Leakage Current Detection	Yes
Output Overcurrent Protection	Yes
Output Short-Circuit Protection	Yes
Other Information	
Operating temperature range	-25°C ~ +60°C
Parallel Capability	6
Cooling Method	Intelligent Forced Air Cooling
Dimensions (L × W × H) (mm)	623*507*224.5
Weight	33kg
Ingress Protection (IP) Rating	IP65 (IEC60529)
Communication methods	RS485 / CAN / Dry Contact
Human-Machine interface (HMI) Method	LED