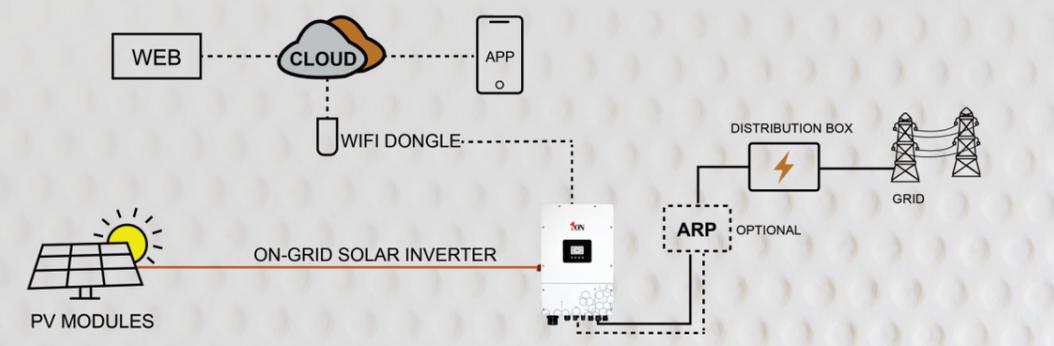




12KW 48V PV24000 OFF GRID

12KW 48V PV24000 HYBRID



PRODUCT ADVANTAGES

- PV Access Power 200%
- 2MPPT Design
- MPPT Rated Current 2/28 A
- Short Circuit Current 2/42 A
- 10% Increased(s) Apparent Power
- Type II SPD On AC/DC Side
- Parallel Capability Upto 10 Units
- Smart Load Output
- Works On Single Source
- Grid feeding option
- Optional AFCI Protection
- BMS

TECHNICAL SPECIFICATION

ROCKS-12K	
PV STRING INPUT	
Max. PV Access Power (W)	24000
Max. PV Input Power (W)	19200
Max. PV Input Voltage (V)	510
Start-up Voltage (V)	80
MPPT Voltage Range (V)	90 – 425
Rated PV Input Voltage (V)	360
Max. Input Current per MPPT (A)	28 / 28
Max. Short Circuit Current per MPPT (A)	42 / 42
No. of MPPT Trackers / No. of Strings per MPPT Tracker	2 / 2 + 2
AC INPUT/OUTPUT	
Rated AC Input/Output Active Power (W)	12000
Max AC Input/Output Apparent Power (VA)	13200
Rated AC Input Current (A)	36.4
Rated AC Output Current (A)	34.8
Max. AC Input Current (A)	54.6
Max. AC Output Current (A)	52.2
Max. Continuous AC Passthrough (grid to load) (A)	80
Peak Power (grid+inverter) (W)	200% rated power @60sec
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/230, 0.85Un~1.1Un
Rated Input/Output Grid Frequency/Range (Hz)	50/45~55, 60/55~65
Grid Connection Form	L+N+PE
THDi	< 3%
BATTERY INPUT	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40 – 60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
Charging Strategy for Lead-Acid battery	3 stages curve
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1
Communication Interface	LED + LCD / CAN, Rs485, CT, NTC, WIFI
EFFICIENCY	
Max. Efficiency	97.6%
Euro Efficiency	96.5%
MPPT Efficiency	>99%
Equipment Protection	S
Surge Protection Level	TYPE II (DC), TYPE I (AC)
INTERFACE	
Communication Interface	RS485 / CAN / Temperature
Monitor Mode	WiFi / 4G+LAN (Optional)
GENERAL	
Operating Temperature Range (°C)	-25°C to +60°C (>45°C Derating)
Permissible Ambient Humidity	5 to 95% (Condensing)
Permissible Altitude	< 3000m
Ingress Protection	IP65
Noise (dB)	< 45
Inverter Topology	Transformerless for PV side / HF for battery side
Over Voltage Category	OVC I (DC), OVC II (AC)
Cabinet Size (W×H×D mm)	411×631×238
Weight (kg)	30
Cooling Method	Intelligent Air Cooling
Warranty (Years)	5
Standards	S
Safety	IEC / EN 62109-1/-2
Grid Monitoring	IEC61727, IEC62116, EN50549
EMC Standard	IEC / EN 61000-6-1, IEC / EN 61000-6-3