

## AC-coupled Inverter

### A1-3K-OS



Die-casting case design  
Safer and more reliable



Lead acid & lithium battery compatible  
Sufficient UPS backup



Precise reverse flow prevention  
Adjustable self-consumption ratio



Compatible with on-grid system  
Easy PV-storage retrofits

## GUANGZHOU SANJING ELECTRIC CO., LTD.

Add:SAJ Innovation Park, No.9, Lizhishan Road, Science City,  
Guangzhou, Guangdong, P.R.China.

Website: [www.saj-electric.com](http://www.saj-electric.com)

E-mail: [info@saj-electric.com](mailto:info@saj-electric.com)



# Technical Data

## A1-3K-OS

Type	A1-3K-OS
AC parameters (grid-connected)	
Max. AC Power [VA]	3000
Max. AC Current[A]	13.1
Nominal AC voltage[V]	230
Grid Grid frequency[HZ]	50/60
AC voltage range[V]	180-270
Grid frequency range[HZ]	44-55/54-66Hz
Overload protection	1.5*Pnom:10S; 1.2*Pnom:30S
AC parameters (off-network)	
Max. AC Power [VA]	3000
Nominal AC voltage[V]	220/230±1%
Rated output Frequency[HZ]	50/60
Output Voltage Harmonic Component [THDV]	<3%(for linear load) / <5%(for non-linear load)
Output Voltage DC Component [mV]	<100
Battery Data	
Battery Type	Li-ion battery / Lead-acid battery
Battery Voltage/Range of Voltage[V]	48 (40~58, software setting)
Max. Charging & Discharging Current [A]	60/60
Max. Charging Power [W]	2500
Battery Capacity[AH]	> = 100 (configure as per the demand)
Charging Curve	3-Stage Adaptive With Maintenance
Max. Battery Charging Efficiency	94.0%
Max. Battery Discharging Efficiency	94.0%
Protection	
Battery Overvoltage/Overcurrent Protection	Integrated
AC Voltage Low Protection	Integrated
AC Short Circuit Protection	Integrated
High Temperature Protection	Integrated
Certificates and standards	
Safety/EMC	CE
General Data	
Dimensions (H*W*D) [mm]	367*389*143
Net Weight [kg]	12.5
Mounting	Rear Panel
Operating Temperature Range	-40°C to +60°C (running in reduced load condition when the temperature is above 45°C)
Relative humidity	0~95%
Max. Operating Altitude	Up to 3000m
Ingress Protection	IP65
Topology	High-frequency isolation
Consumption at Night [W]	<8
Cooling Method	Natural Covection
Noise [dBA]	<25
Display	LED
Monitoring	WAP&APP
Communication	RS232+RS485;GPRS/ WiFi/Ethernet [optional]
Standard Warranty[Year]	5 (standard)/10/15/20/25 (Optional)

\* Products are continuously upgraded and parameters are for reference only.