

## 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

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## **Technical Data**

A1-3K-OS

Туре	A1-3K-OS
AC parameters (grid-connected)	
Max. AC Power [VA]	3000
Max. AC Current [A]	13.1
Nominal AC voltage [V]	230
Grid frequency [HZ]	50/60
AC voltage range [V]	180-270
Grid frequency range [HZ]	50/60±5
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	
Max. Battery Charging Efficiency	3-Stage Adaptive With Maintenance 94.0%
Max. Battery Discharging Efficiency	94.0%
Protection	54.0 %
Battery Overvoltage/Overcurrent Protection	Integrated
AC Voltage Low Protection	Integrated
AC Short Circuit Protection	Integrated
High Temperature Protection	Integrated
Certificates and standards	Integrated
Safety/EMC	
General Data	CE
Dimensions (H*W*D) [mm]	389*367*143
. ,	12.5
Net Weight [kg]	Rear Panel
Mounting	
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	4000m (>3000m power derating) IP65
Ingress Protection	High-frequency isolation
Topology	
Consumption at Night [W]	<8 Natural Covertion
Cooling Method	Natural Covection
Noise [dBA]	<25
Display	LED
Monitoring	APP
Communication	RS232+RS485;GPRS/WiFi/Ethernet [optional]
Standard Warranty [Year]	5 (standard)/10/15/20/25 (Optional)