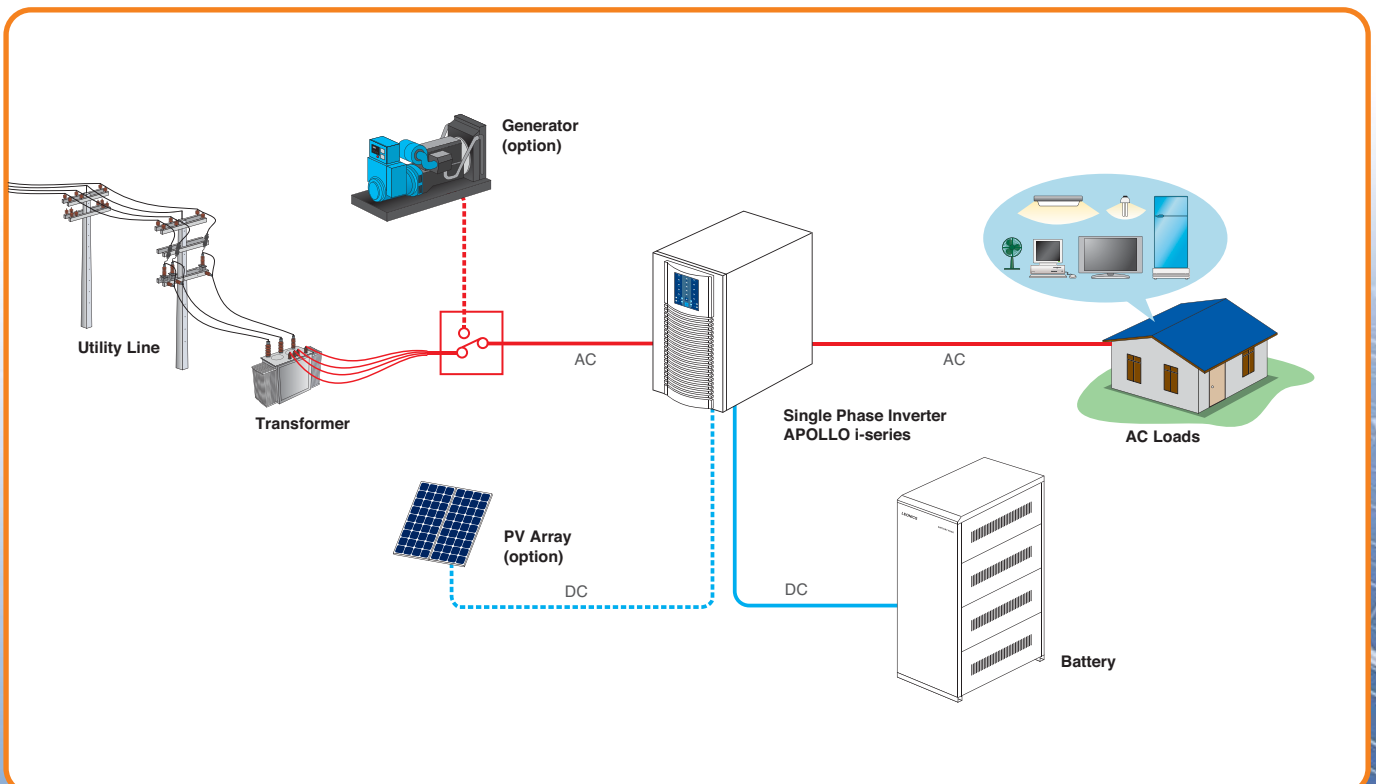


APOLLO i-series

Single Phase Inverter with Battery Backup Capability



- Single phase bidirectional inverter
- Stable output power and frequency
- Low total harmonic distortion (less than 3%)
- High speed automatic transfer switch
- Integrated with overload protection, short circuit protection and high temperature protection
- Automatic low battery voltage shutdown to protect deep charging and in order to prolong the battery life
- 3-stages battery charging to provide quick and safe charging
- RS-232 serial interface communication port
- ISO 9001 and ISO 14001 certified factory



APOLLO i-series Single Phase Inverter with Battery Backup Capability

SPECIFICATIONS

MODEL		i-3K	i-5K
INPUT			
Inverter mode	Nominal voltage	48 Vdc	
	Voltage range	40 - 58 Vdc	
Charge mode	Nominal voltage	220 Vac	
	Voltage range	143 - 275 Vac	165 - 275 Vac
	Frequency	50 / 60 Hz ± 6% at nominal voltage	
PV input		Option	
AC generator		Option	
OUTPUT			
Inverter mode	Power continuous (Pf.= 0.6)	3 kVA / 1.8 kW	5 kVA / 3 kW
	Voltage	220 Vac ± 1%	
	Phase	Single phase	
	Frequency	50 / 60 H ± 0.1%	
	Wave form	Pure sine wave	
	Total harmonic distortion	< 3% at full linear load	
	Maximum surge power	150%	
	Maximum AC current	13.6 A	22.7 A
Charge mode	Nominal voltage	48 Vdc	
	Maximum charging current	2 A	3 A
SYSTEM			
Efficiency	Inverter mode	> 85%	
Protection		Over current, overload, over temperature, short circuit, over voltage, under voltage	
BATTERY			
DC Voltage		48 Vdc	
Battery Type		Sealed lead acid (maintenance-free)	
INDICATOR			
LED		AC Input, PV, Generator, Alarm, AC Input Voltage Level, Battery Level, Load Level, Overload, Low battery / Replace Battery, Frequency Fault, Over Temperature,	
COMMUNICATION INTERFACE			
Communication port	RS-232	Yes	
VENTILATION			
Cooling		Ventilation fan	
DESIGN REGULATION			
Enclosure	Ingress protection	IP 21	
ENVIRONMENT			
Temperature		0°C to 40°C	
Relative humidity		0 - 95 % (non - condensing)	
Acoustic noise	At 1 metre	< 40 dBA	
PHYSICAL			
Dimension	W x H x D in cm.	24 x 41 x 60	
Weight	Approximate in kg.	52	60