

APOLLO IGB-series

Inverter for 1-Phase Input System

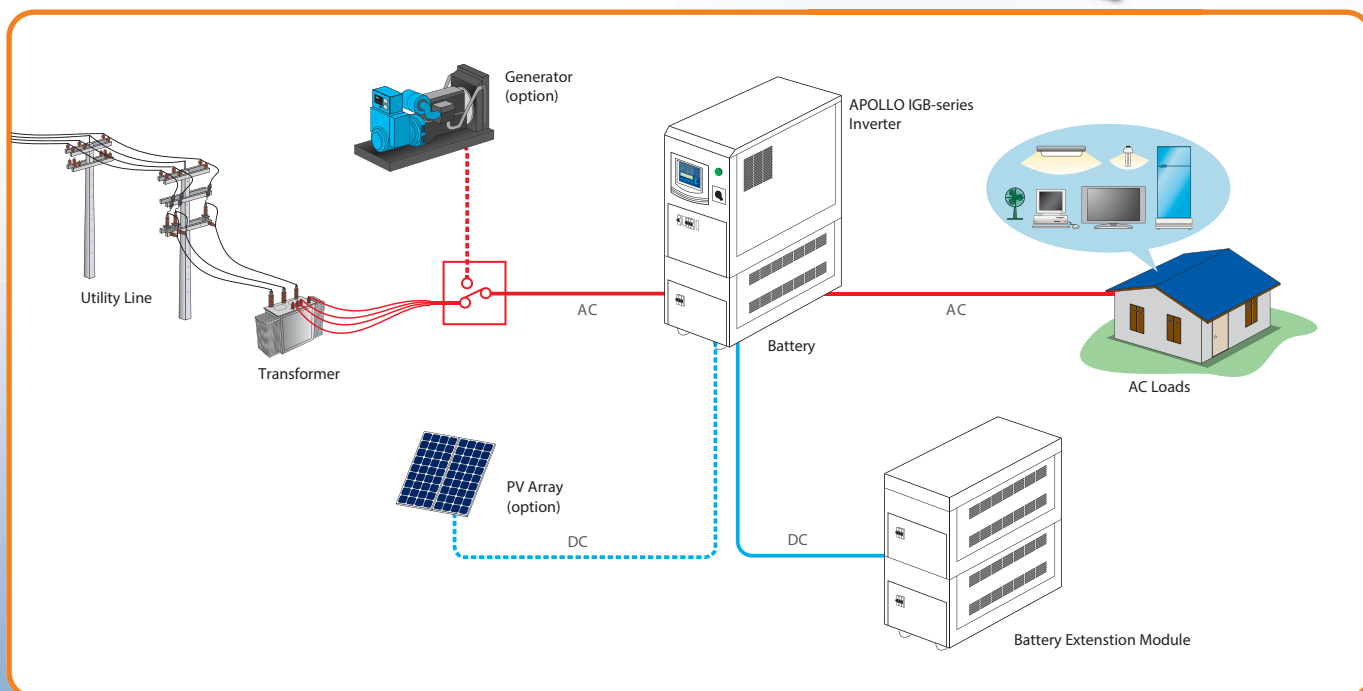


APOLLO IGB Inverter
with Battery

- Single phase inverter with battery backup capability
- Built-in output isolation transformer
- 20kHz PWM inverter
- Integrate PWM with MPPT charge controller (option)
- Low total harmonic distortion (less than 3%)
- EMI/RFI and power line noise protection
- Surge and spike protection
- Overload and short circuit protection
- RS-232 serial interface communication port
- Remote status interface (option)
- Manual bypass switch (option)
- ISO 9001, ISO 14001 and ISO 45001 certified factory



With Battery Extension Module



SPECIFICATIONS

MODEL		IGB-3K		IGB-5K		IGB-10K	
INPUT							
Inverter mode	Nominal voltage	360 Vdc					
	Voltage range	320 - 420 Vdc					
Charge mode	Nominal voltage	220 Vac					
	Voltage range	165 - 264 Vac					
	Frequency	50 / 60 Hz ± 6% at nominal voltage					
PV input		Option					
AC generator		Option					
OUTPUT							
Inverter mode	Power continuous (Pf.= 0.8)	3 kVA / 2.4 kW		5 kVA / 4kW		10 kVA / 8 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		45.5 A	
Charge mode	Nominal voltage	360 Vdc					
	Maximum charging current	3 A		3 A		5 A	
SYSTEM							
E fficiency	Inverter mode	> 93%					
Protection		Over current, overload, over temperature, short circuit, over voltage, under voltage					
BATTERY							
DC Voltage		360 Vdc					
Battery Type		Sealed lead acid (maintenance-free)					
INDICATOR							
LED		On, Shutdown, Over Temperature / Fault, Alarm, AC Input, Charge, Inverter, Inverter Supply, PV, Bypass Input, Auto Bypass, Manual Bypass, Battery Level, Load Level, Overload					
LCD display		AC input (Voltage / Frequency), Bypass input boltage, Battery level (%), Battery temperature (option), Battery (Voltage / Current), Float charge voltage, Boost charge voltage, Charge mode status, AC output (Voltage / Current / Frequency / Power), Inverter (Voltage / Frequency), Inverter temperature, Operation status, Event log					
Audible alarm		AC Input failure, low battery, replace battery, load on bypass, over temperature, fault					
COMMUNICATION INTERFACE							
Communication port	RS-232	Yes					
Remote status	Dry contact	Option					
VENTILATION							
Cooling		Ventilation fan					
DESIGN REGULATION							
Enclosure	Ingress protection	IP 20					
ENVIRONMENT							
Temperature		0°C to 40°C					
Relative humidity		0 - 95 % (non - condensing)					
Acoustic noise	At 1 metre	< 55 dBA					
PHYSICAL							
Dimension	W x H x D in cm.	35 x 95 x 76 cm				43 x 115 x 90 cm	
Weight	Approx. in kg. (w/o batt / with batt)	95 kg / 170 kg		99 kg / 174 kg		190 kg / 265 kg	

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.