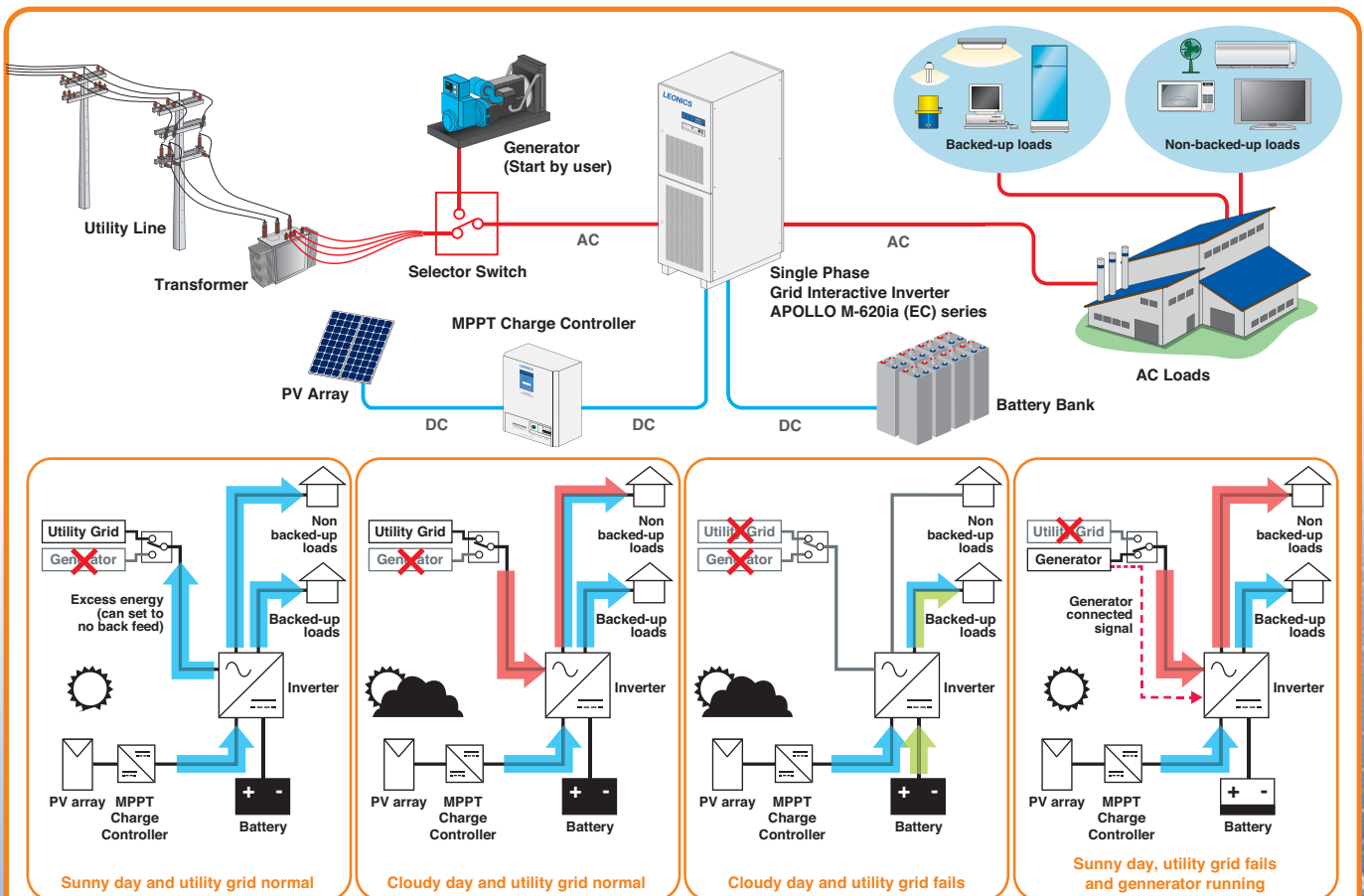


APOLLO M-620 ia(EC)

Single Phase Grid Interactive Inverter



- Single phase bidirectional inverter with built-in output transformer
- Provide uninterruptible backup power to load when utility grid line is not available
- Smart battery charging for small battery capacity
- Feeding excess energy back to grid line
- High efficiency > 95%
- Generator connected and automatic start generator signal when the generator provide as other energy source of the system
- Special design for using at high grid fluctuation area
- User settable operation:
 1. Excess PV energy back feed to utility line
 2. No PV energy back feed to utility line, PV energy only supply to backed-up and non-backed-up loads.
- Battery temperature compensation (Temperature sensor is not included)
- ISO 9001 and ISO 14001 certified factory



The APOLLO M-620 ia (EC) series is a single phase grid interactive inverter. It can operate as grid tie inverter when utility line is available to reduce energy consumption in the industry and can become backup power source for the selected section or the whole house by using energy from PV and battery when utility line is not available. The grid interactive inverter is suitable for single phase industrial applications.

APOLLO M-620 ia(EC) series Single Phase Grid Interactive Inverter

MODEL			M-622E ia (EC)	M-623E ia (EC)	M-624F ia (EC)	M-625F ia (EC)	M-626F ia (EC)
RATED POWER			5 kVA / 5 kW	7.5 kVA / 7.5 kW	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
BATTERY	Nominal Voltage		120 Vdc		240 Vdc		
	Maximum inverter charging current		28 A	42 A	28 A	42 A	56 A
	Maximum battery current		50 A	75 A	50 A	75 A	100 A
EXTERNAL DC CHARGERS	Nominal voltage		120 Vdc		240 Vdc		
	Recommended solar charge controller		SOLARCON SCB-12060	SOLARCON SCB-12060	SOLARCON SCM-24070	SOLARCON SCM-240105	SOLARCON SCM-240140 or SOLARCON SCB-240105
	Maximum PV Power		5 kWp	7.5 kWp	10 kWp	15 kWp	20 kWp
	Maximum charge current		40 A	60 A	40 A	60 A	80 A
AC INPUT FROM GRID LINE OR GENERATOR	Voltage		220 / 230 / 240 Vac (L-N) ± 10%				
	Phase		Single phase				
	Frequency		50 / 60 Hz ± 3 Hz				
	Maximum AC current to inverter		30 A	45 A	60 A	90 A	120 A
	Maximum AC current (Total)		60 A	80 A	106 A	160 A	212 A
	Automatic start / stop		Relay dry contact 10 A (ACC contact)				
AC OUTPUT (BATTERY MODE)	Voltage		220 / 230 / 240 Vac (L-N)				
	Voltage regulation		± 2% (steady load), < 4% at 100% step load within 0.1 sec.				
	Phase		Single phase				
	Frequency		50 / 60 Hz ± 0.1%				
	Wave form		Pure sine wave				
	Total harmonic distortion		total < 3%				
	Maximum surge current		200% at 2 sec				
	Maximum AC current to load	Backed-up	22.7 A	34 A	45.4 A	68.2 A	90.9 A
	Non-backed up	30 A	35 A	46 A	70 A	92 A	
ISOLATION	Galvanic isolation		yes				
EFFICIENCY	Inverter peak efficiency		92%		> 95%		
PROTECTION			Over current, Over load, Short circuit, Over temperature, Over voltage, Under voltage				
INDICATOR	LED		AC Input, Generator Failure, Stand by/Run, Inverter, Charging, Load on Inverter, Overload, Low Battery, High temperature, Fault				
	LCD		Inverter voltage, Inverter current, Inverter frequency, Inverter power, AC input voltage, AC input current, AC input frequency, AC input power, Load voltage, Load current, Load power, Battery voltage, Battery current, Battery state of charge(%), Internal charging current, External DC charging current, Battery temperature (option), Equalizatiton Date, Today AC inverter energy (Input, Output), Today DC inverter energy (Input, Output), Accumulated AC inverter energy (Input, Output), Accumulated DC inverter energy (Input, Output), System status, Time, Date, Heat sink temperature, Data Log				
AUDIABLE ALARM			Low battery, Inverter fault, High temperature				
COOLING			Automatic cooling fan				
ENVIRONMENT	Temperature		0 - 50°C				
	Relative humidity		0 - 95 % (Non - condensing)				
DESIGN STANDARD			AS/NZ 3100:2002				
DIMENSION	W x H x D (cm)		60 x 105 x 65			60 x 148 x 105	
WEIGHT	Approximate in kg.		235	240	260	360	360

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

Authorized Distributor

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