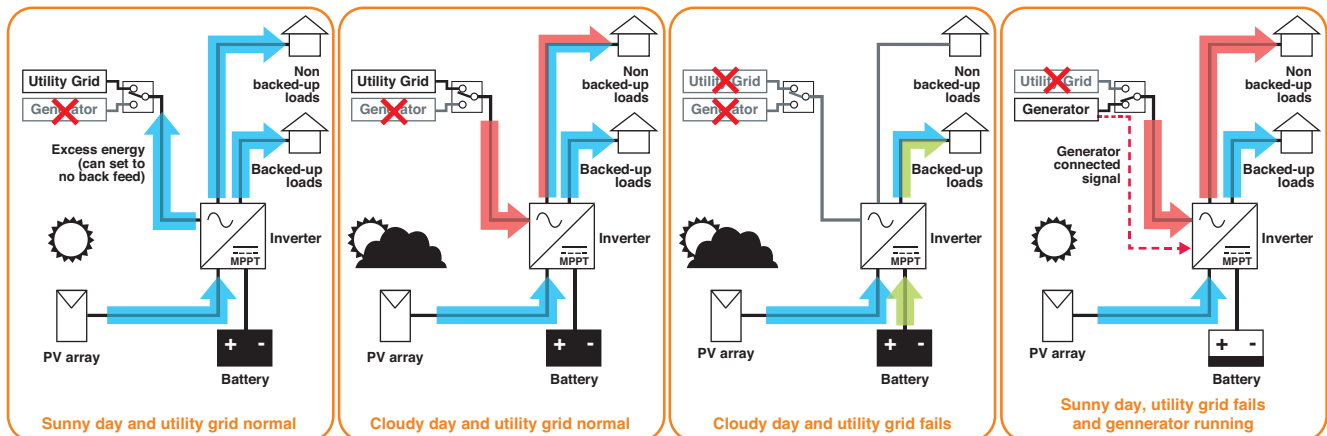
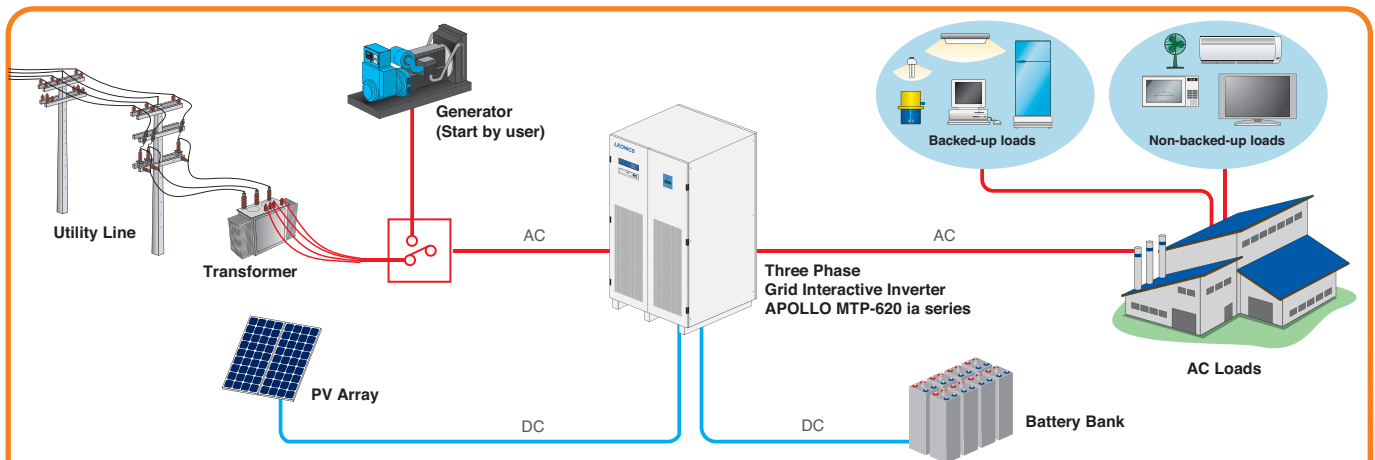


APOLLO MTP-620 ia

Three Phase Grid Interactive Inverter



- Three phase bidirectional inverter with built-in output transformer
- Include PWM with MPPT charge controller
- 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 signal when generator has been used as another source of 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 MTP-620ia series is a three phase grid interactive inverter with built-in MPPT charge controller. It can operate as grid tie inverter when utility line is available to reduce energy consumption. The inverter has two outputs. The output that provide backup power from storage and PV for the selected section house when utility line is not available and the output without back up power to help utilize PV power to reduce or prevent back feed power to utility line.

APOLLO MTP-620 ia series Three Phase Grid Interactive Inverter

MODEL			MTP-622F ia	MTP-623F ia	MTP-624F ia	MTP-625F ia	MTP-626F ia	MTP-627F ia	MTP-628F ia	MTP-629F ia
RATED POWER	PV input		15 kWp	25 kWp	30 kWp	45 kWp	60 kWp	75 kWp	90 kWp	100 kWp
	AC Output		15 kW	25 kW	30 kW	45 kW	60 kW	75 kW	90 kW	100 kW
BATTERY	Nominal Voltage		240 Vdc							
	Max. inverter charging current		40 A	70 A	84 A	125 A	168 A	200 A	250 A	280 A
	Maximum battery current		85 A	142 A	170 A	255 A	340 A	425 A	510 A	570 A
PV INPUT	MPPT voltage range (Vmp of PV string)		280 - 450 Vdc							
	Maximum open circuit voltage (Voc of PV string)		< 500 Vdc							
	Max. charge current from PV		54 A	90 A	108 A	162 A	220 A	270 A	325 A	360 A
AC INPUT FROM GRID LINE OR GENERATOR	Voltage		380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N) ± 10%							
	Phase		Three phase four wires							
	Frequency		50 / 60 Hz ± 3 Hz							
	Max. AC current to inverter		30 A	50 A	60 A	90 A	120 A	150 A	180 A	200 A
	Max. AC current (Total)		60 A	90 A	106 A	160 A	212 A	265 A	318 A	352 A
AC OUTPUT (BATTERY MODE)	Voltage		380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N)							
	Voltage regulation		± 5% (steady load), < 4% at 100% step load within 0.1 sec.							
	Phase		Three phase four wires							
	Frequency		50 / 60 Hz ± 0.1%							
	Wave form		Pure sine wave							
	Total harmonic distortion		total < 3%							
	Maximum surge current		200% at 2 sec.							
	Max. AC current to load	Backed-up	22.7 A	37.8 A	45.4 A	68.2 A	90.9 A	113.6 A	136.3 A	151.5 A
		Non-backed-up	30 A	40 A	46 A	70 A	92 A	115 A	138 A	152 A
	ISOLATION	Galvanic isolation		yes						
EFFICIENCY	Inverter peak efficiency		> 94%		> 95%					
PROTECTION			Over current, Over load, Short circuit, Over temperature, Over voltage, Under voltage							
INDICATOR	Inverter display	LED	AC Input, Generator Failure, Stand by/Run, Inverter, Charging, Load on Inverter, Overload, Low Battery, High temperature, Fault							
		LCD	Inverter (voltage / current / frequency / power), AC input (voltage / current / frequency / power), Battery (voltage / current / state of charge(%)), Internal charging current, External DC charging current, Charging voltage set points, Charging status, Battery temperature (option), Equalization 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, Event log							
	Charger display	LED	Battery level, PV voltage level, Operation status, Alarm							
		LCD	Digital meter, 180 days power and event logger							
	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 188 x 105			60 x 205 x 105		120 x 205 x 105		
WEIGHT	Approximate in kg.		530	540	545	659	1,115	1,130	1,140	1,144

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

Authorized Distributor

LEO ELECTRONICS CO.,LTD.

27, 29 Soi Bangna-Trad Rd 34, Bangna, Bangkok 10260 THAILAND Tel. 0-2746-9500, 0-2746-8708 Fax. 0-2746-8712 e-mail : RNE@leonics.com

▪ www.leonics.com ▪

Authorized Dealer