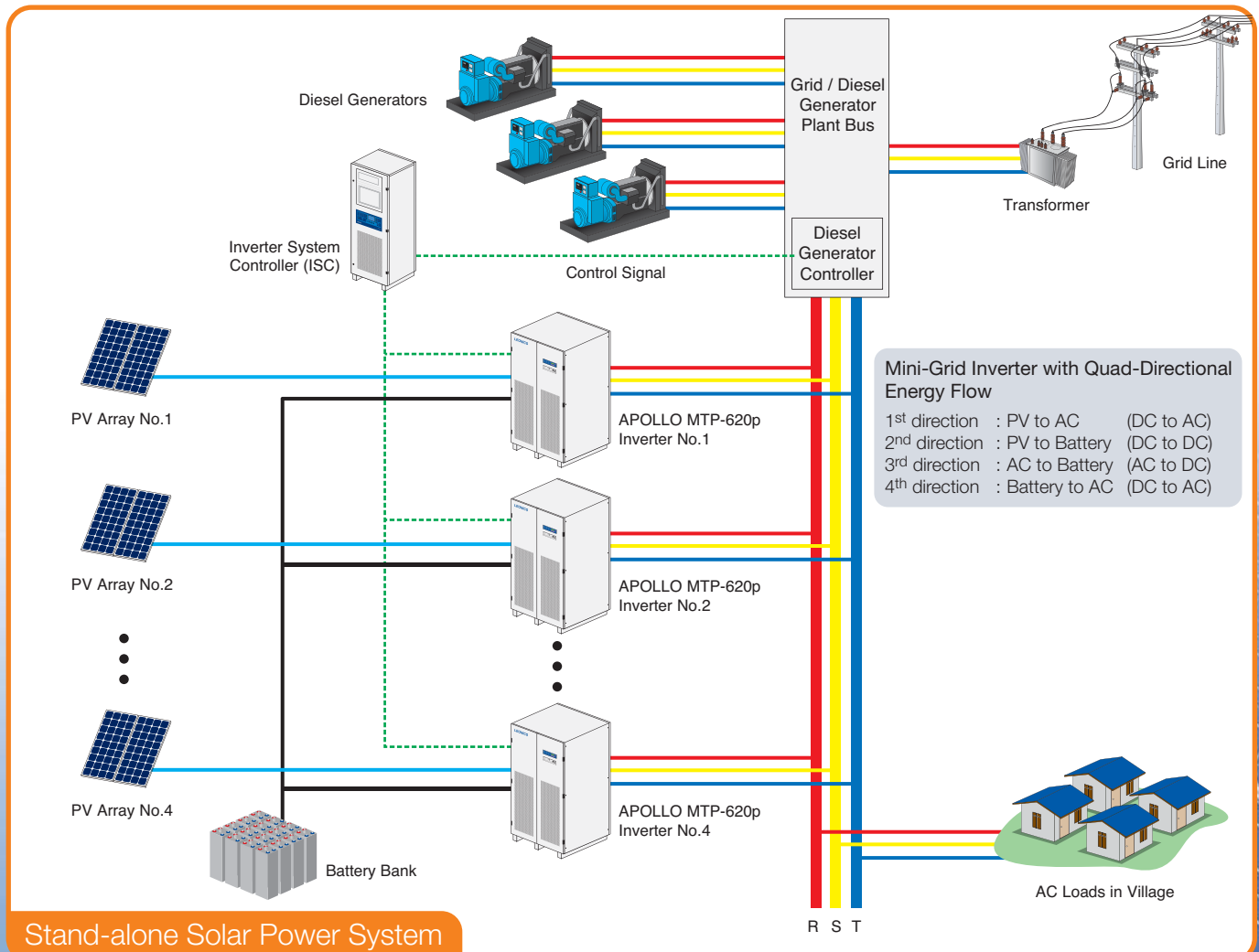


APOLLO MTP-620p

Mini-Grid Inverter with Quad Directional Energy Flow

- Three phase quad-directional inverter with built-in output transformer and MPPT charge controller
- Minimum hardware cost
- Lowest cost of energy with hybrid AC-DC coupling
- Power rating from 120 to 300 kW for each inverter and 50 kW to 200 kW MPPT charge controller
- Can parallel operation of inverters for total inverter power up to 1,200 kW and up to 2,000 kWp of PV
- Design for operate in Micro grid operation with utility line or operate as stand-alone PV-DG Hybrid System
- Parallel configuration up to 4 units of inverter
- Provide backup power to load when utility grid line is not available
- Supply load and charge battery from PV panels at the same time
- Overall conversion efficiency > 97%
- ISO 9001 and ISO 14001 certified factory



APOLLO MTP-620p series Three Phase Mini-Grid Inverter with Quad Directional Energy Flow

MODEL		MTP-6210Hp	MTP-6211Hp	MTP-6213Hp	MTP-6215Hp	MTP-6217Hp
RATED POWER	PV input	≤ 170 kWp	≤ 250 kWp	≤ 350 kWp	≤ 400 kWp	≤ 500 kWp
	AC output	120 kW	150 kW	200 kW	250 kW	300 kW
	DC output	50 kW	100 kW	150 kW	150 kW	200 kW
DC OUTPUT	Voltage range	500 - 600 Vdc				
BATTERY	Nominal Voltage	480 Vdc				
	Max. charging current from PV	95 A	190 A	285 A	285 A	380 A
	Max. charging current from INV.	95 A	190 A	285 A	285 A	380 A
	Max. total charging current	95 A	190 A	285 A	285 A	380 A
	Max. battery current	340 A	425 A	570 A	710 A	850 A
PV INPUT	MPPT voltage range (V _{mp} of PV string)	560 - 700 Vdc				
	Maximum open circuit voltage (V _{oc} of PV string)	850 Vdc				
	Maximum PV current	310 A	450 A	625 A	720 A	900 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				
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 < 4%, each < 3%				
	Maximum surge current	200% at 2 sec.				
	Maximum AC current	181.8 A	227.3 A	303 A	378.8 A	454.5 A
ISOLATION	Galvanic isolation	yes				
EFFICIENCY	Inverter peak efficiency	> 96%				
	Charge controller peak efficiency	> 98.5%				
	Max. overall PV conversion eff.	> 97%				
PROTECTION		Over current, Over load, Short circuit, Over temperature, Over voltage, Under voltage				
INDICATOR	LED	AC Input, Generator Failure, Stand by/Run, Inverter, Charging, Battery supply switch, Overload, Low Battery, High temperature, Fault				
	LCD	Inverter voltage, Inverter current, Inverter frequency, Inverter power, AC input voltage, AC input frequency, Battery voltage, Battery current, Battery state of charge(%), PV voltage, PV current, PV power, 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				
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))	Control Unit	80 x 205 x 105	80 x 205 x 105	80 x 205 x 105	110 x 205 x 105	110 x 205 x 105
	Transformer unit	120 x 205 x 105	120 x 205 x 105	120 x 205 x 105	110 x 205 x 105	110 x 205 x 105
WEIGHT (Approximate in kg)	Control unit	550	550	550	775	775
	Transformer unit	935	1,200	1,320	1,400	1,500

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

Authorized Distributor

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