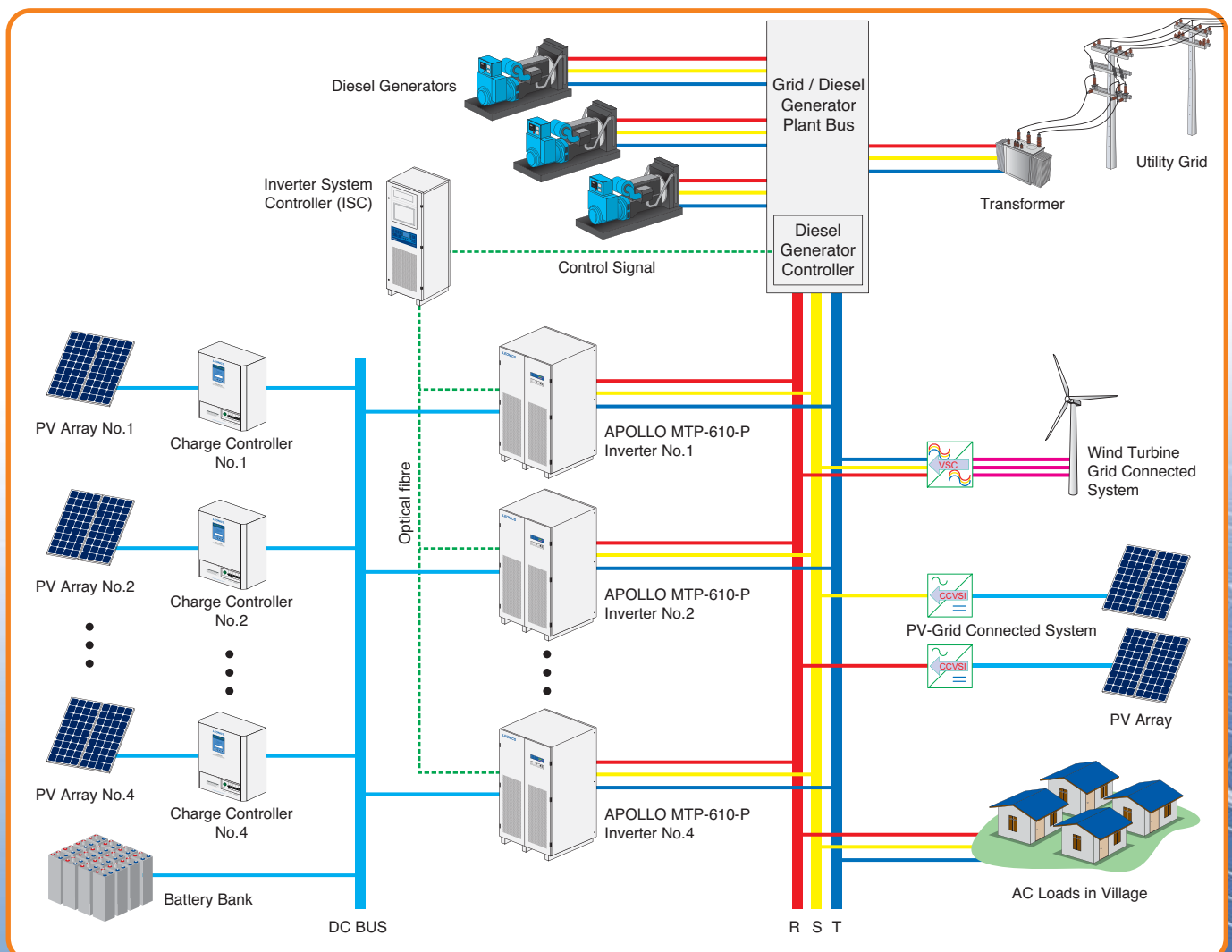


## APOLLO MTP-610-P

### Three Phase Bidirectional Parallel Inverter for Stand-alone Hybrid Mini-Grid and Micro Grid System



- Three phase inverter with built-in output transformer
- Power rating from 120 to 300 kW for each inverter
- Can parallel operation of inverters for total inverter power up to 1,200 kW
- 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 with the Inverter System Controller (ISC)
- Power sharing control of each parallel-connected inverter by ISC
- Optical fiber communication with ISC
- Operates with Hybrid Control Command Unit (HCCU)
- ISO 9001 and ISO 14001 certified factory



## APOLLO MTP-610-P series Three Phase Bidirectional Parallel Inverter for Stand-alone Hybrid Mini-Grid and Micro Grid System

MODEL		MTP-614F-P	MTP-615F-P	MTP-617F-P	MTP-616F-P	MTP-6110F-P	MTP-6110H-P	MTP-6111H-P	MTP-6113H-P	MTP-6115H-P	MTP-6117H-P	
RATED POWER		30 kW	45 kW	60 kW	75 kW	120 kW	120 kW	150 kW	200 kW	250 kW	300 kW	
BATTERY	Nominal voltage	240 Vdc					480 Vdc					
	Maximum current	170 A	255 A	340 A	425 A	680 A	340 A	425 A	570 A	710 A	850 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	45.4 A	68.2 A	90.9 A	113.6 A	181.8 A	181.8 A	227.3 A	303 A	378.8 A	454.5 A	
ISOLATION	Galvanic isolation	yes										
EFFICIENCY	Inverter peak efficiency	> 95%					> 96%					
PROTECTION		Over current, Over load, Short circuit, Over temperature, Over voltage, Under voltage										
INDICATOR	LED	External Charging, Bypass, Generator Running, Generator Failure, Stand by/Run, Inverter, Charging, Load on Inverter, Overload, Low Battery, High temperature, Fault										
	LCD	Inverter (voltage, current, frequency, power, reactive power), Generator (voltage, current, frequency, power, reactive power), Battery (voltage, current, state of charge(%), charging current), Heat sink temperature, Battery temperature (option), Equalization date, Today DC Inverter Energy (Input, output), Today AC Inverter Energy (input, output), Accumulated DC energy (input, output), Accumulated AC Energy (input, output), System status, Time, Date, Data Log										
AUDIABLE ALARM		Low battery, Inverter fault, High temperature										
COOLING		Automatic cooling fan										
ENVIRONMENT	Temperature	0 - 45°C										
	Relative humidity	0 - 95 % (Non - condensing)										
DESIGN STANDARD		AS/NZ 3100:2002										
DIMENSION (W x H x D (cm))	Control unit	60 x 188 x 105	<sup>(1)</sup> 90 x 188 x 105			120 x 205 x 105			<sup>(2)</sup> D1	<sup>(3)</sup> D2	110 x 205 x 105	
	Transformer unit	-	-			-					110 x 205 x 105	
WEIGHT (Approximate in kg)	Control unit	520	540	796	860	1,170	1,170	1,204	530	775	775	775
	Transformer unit	-	-	-	-	-	-	-	1,240	1,200	1,355	1,455

(1) The dimension of control unit on the above table are the dimension of the bottom entry cabinet. All inverter model, the control unit cabinet can be either top or bottom cable entry depending on the system configuration. But only 75kW model, the top-cable entry cabinet sizing is 90 x 205 x 105 cm.

(2) D1 = 80 x 205 x 105 cm for control unit and 120 x 205 x 105 for transformer unit. (3) D2 = 110 x 205 x 105 cm for control unit and transformer unit. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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