

APOLLO MTP-620x

Three Phase Hybrid Inverter

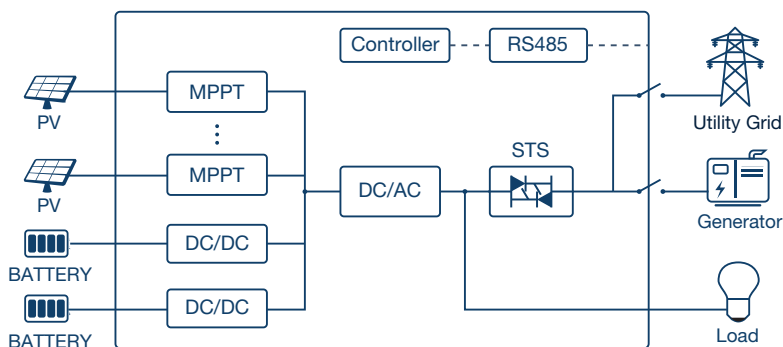


APOLLO MTP-621x to MTP-625x
(20 kW ~ 50kW)



APOLLO MTP-628x to MTP-6212x
(80 kW ~ 125kW)

- Three phase bidirectional power conversion
- Modular design enables flexible system expansion for commercial and industrial (C&I) installations
- High reliability industrial design engineered for 24/7 mission-critical operation
- Designed for commercial, industrial and data center with LFP battery energy storage system
- Built-in Static Transfer Switch (STS) enables seamless transfer between utility grid and generator in <10 ms, ensuring a continuous power supply to loads. No external switch device required
- Multiple operating modes such as on-grid mode, off-grid mode, diesel engine mode, hybrid mode, backup mode, and peak shaving
- Supports PV+ESS+Utility Grid and PV+ESS+Generator operation for backup and off-grid operation
- Supports self-consumption, peak shifting, time-of-use, and battery backup
- Peak grid demand reduction to lower electricity charges and operation costs
- Scalable parallel operation supports up to 20 units for on-grid system and 6 units for on-grid/off-grid applications
- Supports 100% unbalance load operation with up to 50% of rated capacity on any phase
- RS-485 and CAN communication interfaces and easy integration with EMS and BMS platforms
- Factory-integrated design simplifies installation and commissioning with automatic system recognition



APOLLO MTP-621x to MTP-625x



APOLLO MTP-628x to MTP-6212x

MODEL		MTP-621x	MTP-622x	MTP-623x	MTP-624x	MTP-625x
RATED POWER	Maximum DC input	22 kW	27.5 kW	33 kW	44 kW	55 kW
	AC output	20 kW	25 kW	30 kW	40 kW	50 kW
SYSTEM	Topology	Transformerless				
PV INPUT	MPPT voltage range (Vmp)	250 ~ 950 Vdc (Max. 1000 Vdc)				
	MPPT rated voltage	720 Vdc				
	MPPT rated voltage (full load)	300 ~ 800 V	350 ~ 800 V	400 ~ 800 V	500 ~ 800 V	550 ~ 800 V
	Max. PV power	40 kWp	50 kWp	60 kWp	80 kWp	100 kWp
	Number of MPPT / Strings per MPPT	4 / 2				
	Max. current MPPT	45 A				
BATTERY	Voltage range	200 ~ 950 Vdc				
	Rated voltage range	250 ~ 800 Vdc				
	Maximum DC current	40 A x 2	50 A x 2	60 A x 2	80 A x 2	80 A x 2
	Maximum DC power	22 kW	27.5 kW	33 kW	44 kW	55 kW
	Number of DC input	2				
	Battery type	LFP (LiFePO ₄) battery				
AC SIDE (ON GRID)	Nominal AC output power	20 kW	25 kW	30 kW	40 kW	50 kW
	Max. AC output power	27.5 kVA	27.5 kVA	33 kVA	44 kVA	55 kVA
	Max. AC input power (single phase)	20 kW	25 kW	25 kW	27.5 kW	37.5 kW
	Rated AC output current	29 A	36.3 A	43.5 A	58 A	72.5 A
	Max. AC input current	87 A	110 A	110 A	120 A	163 A
	AC rated voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N) -15% ~+10%				
	Phase	Three phase (3L+PE+N)				
	Frequency	50 / 60 Hz ± 5 Hz				
	Total Harmonic Distortion	THDi < 3% (at full load)				
	Adjustable PF range	- 0.8 (lagging) ~ 0.8 (leading)				
BACKUP OUTPUT	Voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N)				
	Phase	Three phase (3L+PE+N)				
	Frequency	50 / 60 Hz				
	Wave form	Pure sine wave				
	Total Harmonic Distortion	THDv < 3%				
	Nominal AC output power	20 kW	25 kW	30 kW	40 kW	50 kW
	Max. AC output power (single phase)	20 kW	25 kW	25 kW	25 kW	25 kW
	Max. output current	87 A	110 A	110 A	110 A	110 A
GENERATOR	Max. input current	87 A	110 A	110 A	110 A	110 A
EFFICIENCY	Peak efficiency	97.5%				
PROTECTION	Reverse DC connection	yes				
	Anti-islanding	yes				
	Over temperature	yes				
	Grid monitoring/Ground fault detection	yes				
	Insulation monitoring	yes				
	DC / AC surge protection	DC type II, AC type II				
	AFCI	optional				
INDICATOR	LED	Operation (green), Alarm (yellow), Fault (red)				
COMMUNICATION INTERFACE		RS-485, CAN				
COOLING		Intelligent air cooling				
ENVIRONMENT	Operating temperature	-25°C ~ 60°C (> 45°C Derating)				
	Operating humidity	0 ~ 100 % (Non - condensing)				
	Altitude	4000 m (> 3000 m Derating)				
	Ingress protection	IP65				
DIMENSION	W x H x D (cm)	95 x 63.5 x 31.5 cm				
WEIGHT	Approximate in kg	> 80 kg				

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

LEO POWER SUPPLY CO.,LTD.

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MODEL		MTP-628x	MTP-6210x	MTP-6212x
RATED POWER	Maximum DC input	88 kW	110 kW	125 kW
	AC output	80 kW	100 kW	125 kW
SYSTEM	Topology	Transformerless		
PV INPUT	MPPT voltage range (Vmp)	250 ~ 950 Vdc (Max. 1000 Vdc)		
	MPPT rated voltage	720 Vdc		
	MPPT rated voltage (full load)	450 ~ 800 V	550 ~ 800 V	700 ~ 800 V
	Max. PV power	160 kWp	200 kWp	250 kWp
	Number of MPPT / Strings per MPPT	8 / 2		
	Max. current MPPT	45 A		
BATTERY	Voltage range	200 ~ 950 Vdc		
	Rated voltage range	250 ~ 850 Vdc		
	Maximum DC current	80 A x 2		
	Maximum DC power	88 kW	110 kW	125 kW
	Number of DC input	2		
	Battery type	LFP (LiFePO ₄) battery		
AC SIDE (ON GRID)	Nominal AC output power	80 kW	100 kW	125 kW
	Max. AC output power	88 kVA	110 kVA	125 kVA
	Rated AC output current	116 A	144 A	181 A
	Max. AC input current	227 A		
	AC rated voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N) -15% ~+10%		
	Phase	Three phase (3L+PE+N)		
	Frequency	50 / 60 Hz ± 5 Hz		
	Total Harmonic Distortion	THDi < 3% (at full load)		
	Adjustable PF range	- 0.8 (lagging) ~ 0.8 (leading)		
BACKUP OUTPUT	Voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N)		
	Phase	Three phase (3L+PE+N)		
	Frequency	50 / 60 Hz		
	Wave form	Pure sine wave		
	Total Harmonic Distortion	THDv < 3%		
	Nominal AC output power	80 kW	100 kW	125 kW
	Max. AC output power (single phase)	50 kW		
	Max. output current	227 A		
GENERATOR	Max. input current	227 A		
EFFICIENCY	Peak efficiency	98%		
PROTECTION	Reverse DC connection	yes		
	Anti-islanding	yes		
	Over temperature	yes		
	Grid monitoring/Ground fault detection	yes		
	Insulation monitoring	yes		
	DC / AC surge protection	DC type II, AC type II		
	AFCI	optional		
INDICATOR	LED	Operation (green), Alarm (yellow), Fault (red)		
COMMUNICATION INTERFACE		RS-485, CAN		
COOLING		Intelligent air cooling		
ENVIRONMENT	Operating temperature	-25°C ~ 60°C (> 45°C Derating)		
	Operating humidity	0 ~ 100 % (Non - condensing)		
	Altitude	4000 m (> 3000 m Derating)		
	Ingress protection	IP65		
DIMENSION	W x H x D (cm)	112 x 76 x 36.5 cm		
WEIGHT	Approximate in kg	135 kg		

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P.LEN.BRO.INV.305 Rev.1.10/2026