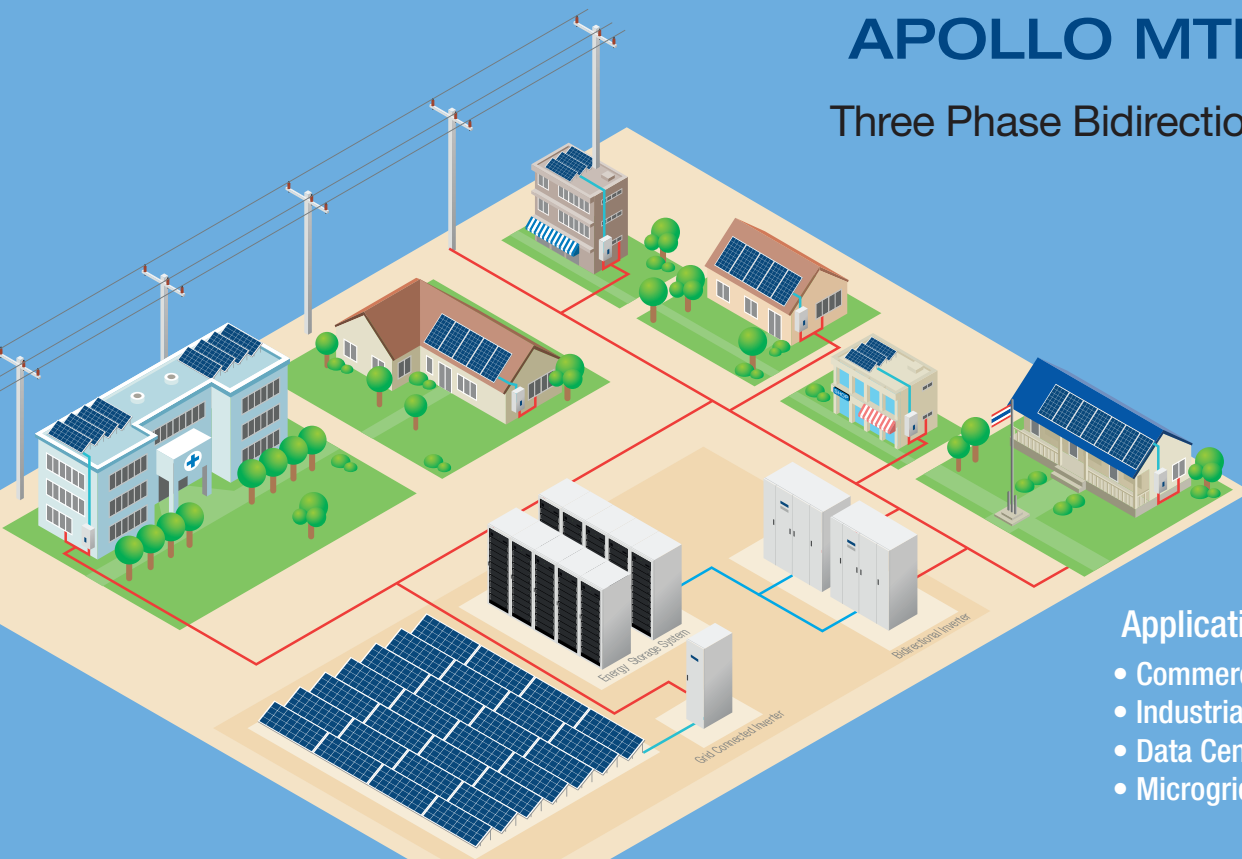


APOLLO MTP-410x

Three Phase Bidirectional Inverter



Applications

- Commercial
- Industrial
- Data Center
- Microgrid Community

- Three phase bidirectional power conversion
- High reliability industrial design engineered for 24/7 mission-critical operation
- Designed for commercial, industrial and data center with lithium battery energy storage system
- Optimized for lithium batteries and compatible with both LFP and NMC technologies
- Excellent power quality with low harmonic distortion and stable voltage and frequency
- High energy efficiency with conversion efficiency up to 97%
- Flexible operating modes including grid-connected, backup, island, peak shaving, and load-following.
- Peak demand reduction to lower electricity charges and operation costs
- Fast dynamic response to handle rapid load changes from critical equipment
- RS-485 and Ethernet communication interfaces and easy integration with EMS, SCADA, and BMS platforms
- Optional built-in isolation transformer
- Optional parallel N+1 redundant operation for scalability and high availability
- Industrial-grade safety protection including over-voltage, over current, insulation monitoring and emergency power off (EPO)
- Certified for compatible operation with PEA grid line
- Manufactured certified to ISO 9001, ISO 14001 and ISO 45001 standards



APOLLO MTP-410x

MODEL		MTP-418x	MTP-419x	MTP-4110x	MTP-4115x	MTP-4117x	MTP-4118x	MTP-4122x
RATED POWER		90 kVA / 90 kW	100 kVA / 100 kW	125 kVA / 125 kW	250 kVA / 250 kW	300 kVA / 300 kW	350 kVA / 350 kW	550 kVA / 550 kW
BATTERY	Voltage range	500 - 700 Vdc						
	Max. AC charging current	90 A	100 A	120A	250 A	300 A	350 A	550 A
	Max. battery current (discharging / charging)	162 A	180 A	275 A	450 A	540 A	630 A	990 A
AC INPUT	Recommended generator power (option)	90 kVA	100 kVA	125 kVA	250 kVA	300 kVA	350 kVA	550 kVA
	Voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N) $\pm$ 10%						
	Phase	Three phase						
	Frequency	50 / 60 Hz $\pm$ 3 Hz						
AC OUTPUT	Voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N)						
	Voltage regulation	$\pm$ 3% (steady load), < 7% at 100% step load within 0.1 sec.						
	Phase	Three phase						
	Frequency	50 / 60 Hz $\pm$ 0.1% (auto sensing)						
	Wave form	Pure sine wave						
	Total Harmonic Distortion	total < 3%						
	Maximum surge current	200%						
	Maximum AC current	136 A	151 A	189 A	378 A	454 A	530 A	833 A
EFFICIENCY	Peak efficiency (if included galvanic isolation)	97%						
PROTECTION		Over current, Over load, Short circuit, Over temperature, Over voltage, Under voltage						
INDICATOR	LED	Charging, Bypass, Generator Running, Generator Failure, Stand by/Run, Inverter, Load on Inverter, Overload, Low Battery, High temperature, Fault						
	LCD display	Inverter (voltage, current, frequency, power, reactive power), Generator (voltage, current, frequency, power, reactive power), Battery (voltage, current, %SOC, 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 - 55°C						
	Relative humidity	0 - 95 % (Non - condensing)						
DESIGN REGULATION	Standard	IEC 62109-1, IEC 62109-2, IEC 61727, IEC 62116, IEC 61000-6-2, IEC 61000-6-4, IEC 61000-3-2, IEC 61000-3-5						
	Enclosure	IP30 (IP54 is optional)						
DIMENSION	Control unit	120 x 212 x 80		150 x 212 x 80	200 x 212 x 80		120 x 212 x 80	
W x H x D (cm)	Transformer unit	-		-	-		120 x 212 x 80	
WEIGHT	Approximate in kg	1,080	1,150	1,220	1,911	1,980	2,050	2,120

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

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