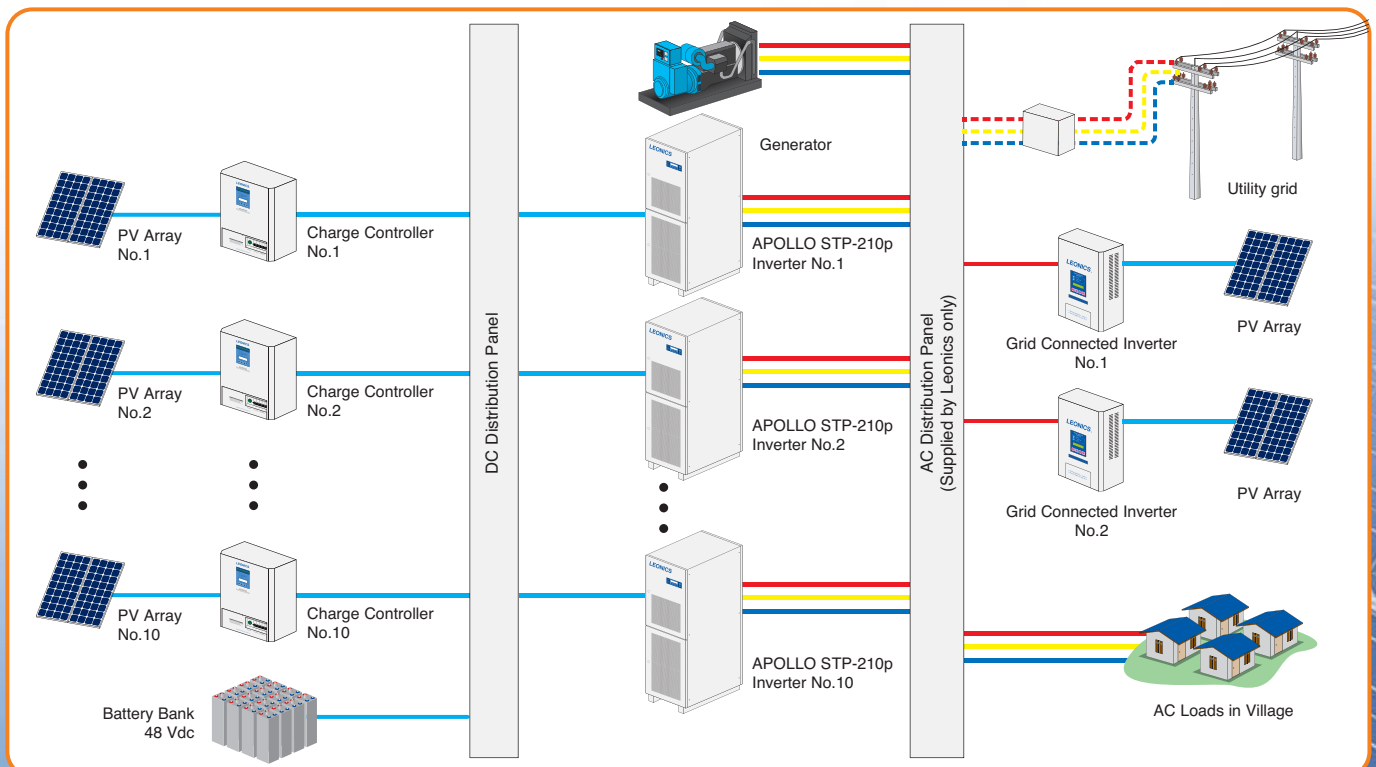
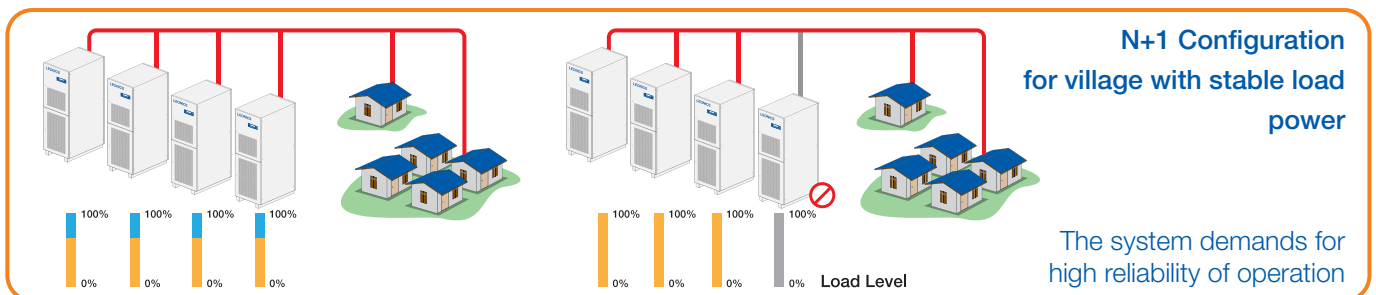


APOLLO STP-210p

Three Phase Bidirectional Parallel Inverter



- High efficiency bidirectional inverter with built-in output transformer
- Capable to use with multiple renewable energy sources in both DC coupling and AC coupling such as PV panel, wind turbine generator and micro hydro generator
- Frequency shift energy management control
- Separate DC Bus for multiple source charging
- No master unit required
- Expandable power by adding inverter from 1 to 10 units without master controller
- Digital input to select operation between inverter mode or charge mode
- Capable to interact with utility grid line (option)
- IP65 protection outdoor enclosure (option)
- ISO 9001 and ISO 14001 certified factory
- Parallel output capability
- Parallel configuration up to 10 units
- Capable to operate in N+1 redundancy configuration for very high reliability in remote area



APOLLO STP-210p series Three Phase Bidirectional Parallel Inverter

MODEL		STP-219Cp	STP-219Cp(L)	STP-2110Cp	STP-2110Cp(L)	STP-2111Cp	STP-2111Cp(L)
RATED POWER	At 25°C cos φ = 1	15 kVA / 15 kW		18 kVA / 18 kW		22.5 kVA / 22.5 kW	
AC POWER	At 25°C for 30 min / 5 min / 3 sec	16 kW / 22 kW / 30 kW		20 kW / 26.3 kW / 36 kW		24 kW / 33 kW / 45 kW	
BATTERY	Nominal Voltage	48 Vdc					
	Maximum charging current	200 A		240 A		300 A	
	Maximum battery current	390 A		460 A		575 A	
AC SOURCE (GRID LINE OR GENERATOR)	Recommended generator power	23 kVA		27 kVA		34 kVA	
	Voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N)					
	Phase	Three phase					
	Frequency	50 / 60 Hz ± 3 Hz					
	Max. AC current (for charge mode)	22.7 A		27.3 A		34 A	
	Start / stop generator	Relay dry contact 10 A (ACC contact)					
AC OUTPUT	Voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N)					
	Voltage regulation	± 3% (steady load), < 7% at 100% step load within 0.1 sec.					
	Phase	Three phase					
	Frequency	50 / 60 Hz ± 0.1% (auto sensing)					
	Wave form	Pure sine wave					
	Total harmonic distortion	total < 3%					
	Maximum surge current	200%					
	Maximum AC current	22.7 A		27.3 A		34 A	
ISOLATION	Galvanic isolation	yes					
EFFICIENCY	Inverter peak efficiency	> 95%					
PROTECTION		Over current, over load, short circuit, over temperature, over voltage, under voltage, battery reverse polarity					
	Battery temperature sensor	option					
DIGITAL INPUT SIGNAL		Auxillary inverter circuit breaker, Auxillary generator circuit breaker, Auxillary Bypass circuit breaker / Load transfer switch					
INDICATOR	LED	Stand by/Run, AC, Full battery/Low battery, Alarm					
	LCD display	Inverter (voltage, current, frequency, power, reactive power), AC Bus (voltage, frequency), Battery (voltage, current, state of charge (%)), External DC charging current, Charging status, Battery charging voltage set points, Equalization charge date, Heat sink temperature, Battery temperature (option), 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, Load transfer switch signal status, Digital input signal status, Time, Date, Data and Event log					
AUDIABLE ALARM	Buzzer	Low battery, inverter fault, overload, short circuit, over temperature					
COOLING		Automatic cooling fan					
ENVIRONMENT	Temperature	0 - 45°C					
	Relative humidity	0 - 95 % (Non - condensing)					
DESIGN	Standard	AS/NZ 3100:2002, IEC 61683 (for efficiency test)					
REGULATION	Enclosure	IP65 (option)					
DIMENSION	W x H x D in cm.	60 x 148 x 105					
WEIGHT	Approximate in kg	404 kg	340 kg	410 kg	345 kg	430 kg	365 kg

Note: For APOLLO STP-210pH (L) series, it has only input and output terminal blocks. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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