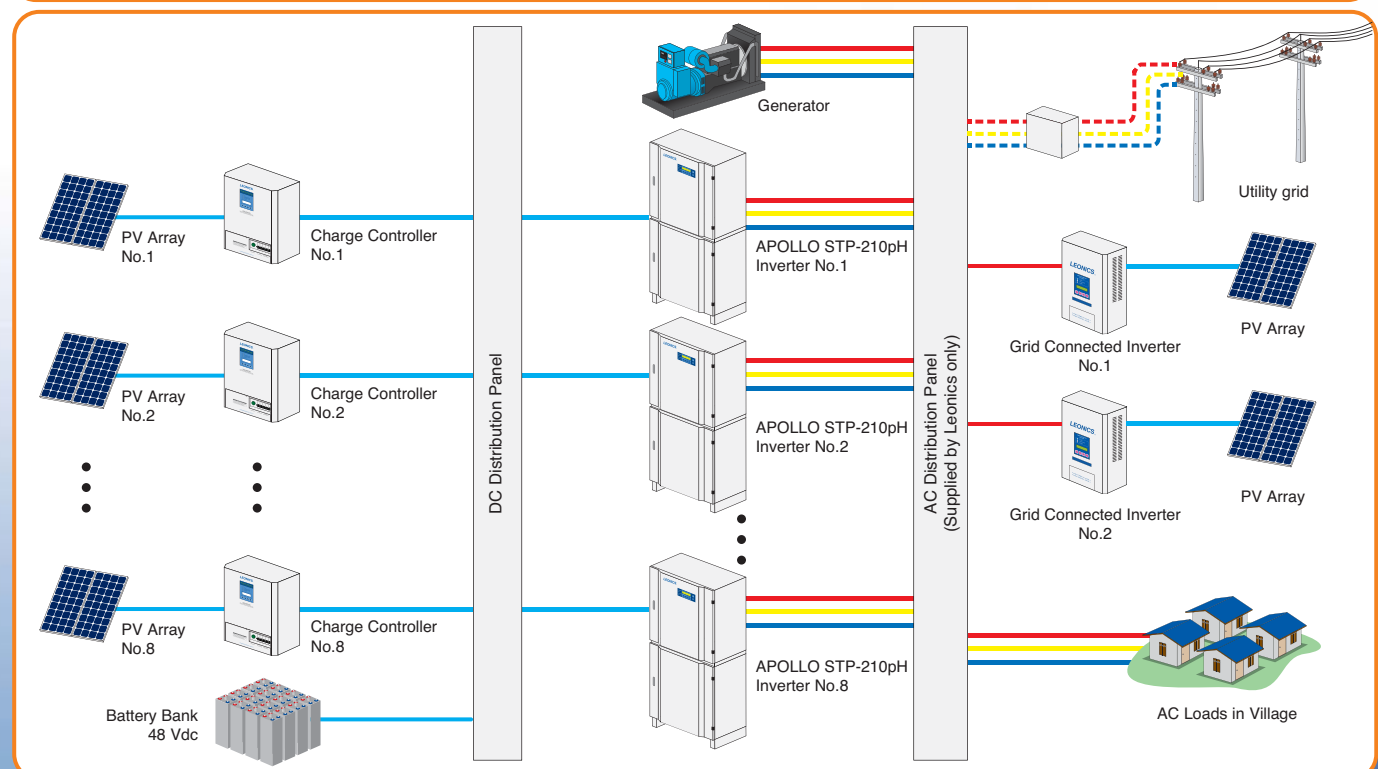
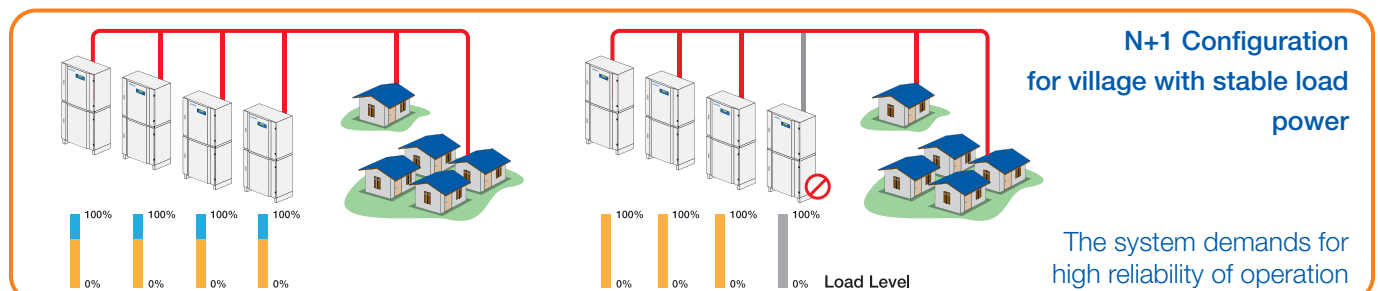


APOLLO STP-210pH

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 8 units without master controller
- Digital input to select operation between inverter mode or charge mode
- Capable to interact with utility grid line (option)
- IP41 protection enclosure
- ISO 9001 and ISO 14001 certified factory
- Parallel output capability
- Parallel configuration up to 8 units
- Capable to operate in N+1 redundancy configuration for very high reliability in remote area



APOLLO STP-210pH series Three Phase Bidirectional Parallel Inverter

MODEL		STP-219CpH	STP-2110CpH	STP-2111CpH
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 $\pm$ 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	$\pm$ 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	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 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	IP41		
DIMENSION (W x H x D) in cm	Control unit	70 x 67 x 55		
	Transformer unit	70 x 83 x 55		
WEIGHT (Approximate in kg)	Control unit	68 kg	70 kg	75 kg
	Transformer unit	176 kg	185 kg	200 kg

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



Control Unit



Transformer Unit

Authorized Distributor

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