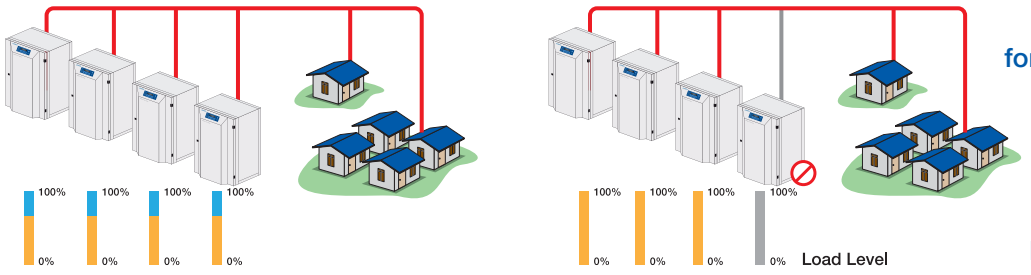
LEONICS®

APOLLO S-210p

Bidirectional Parallel Inverter

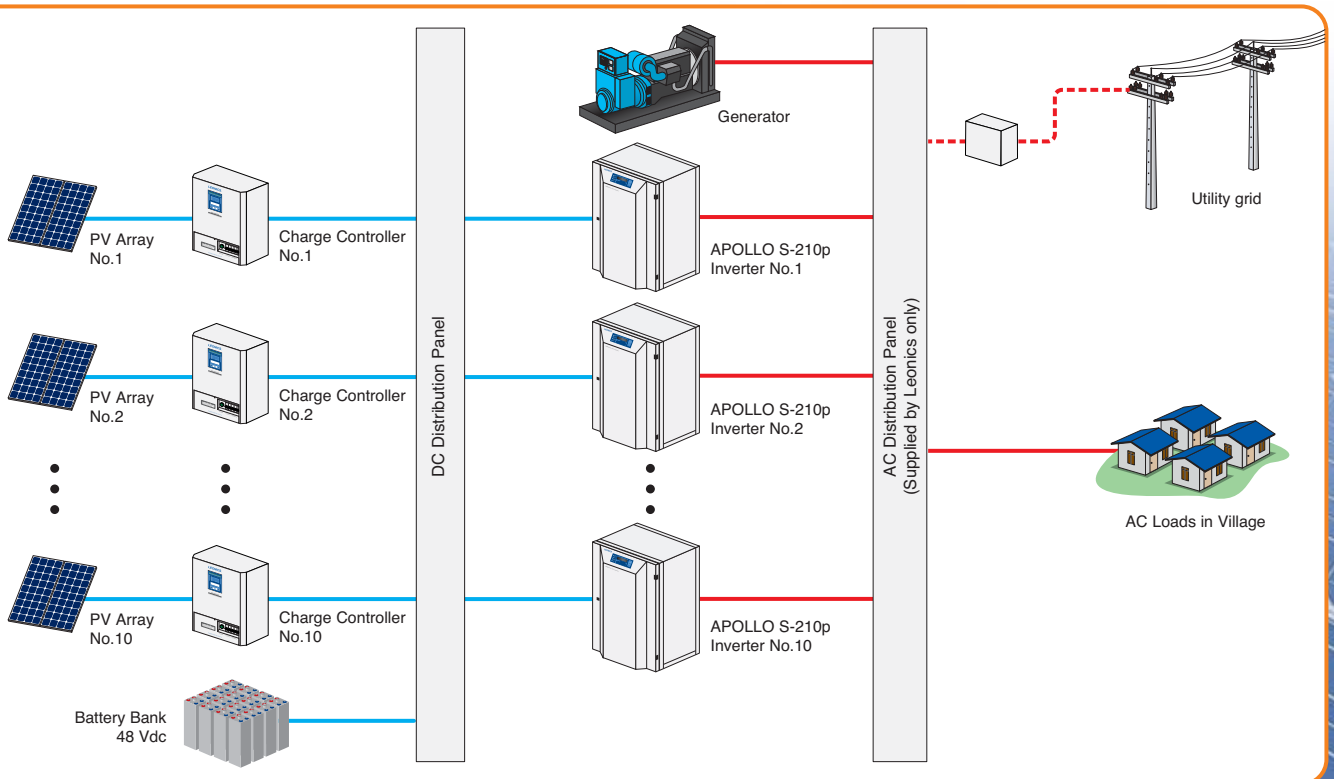
- Parallel output capability
- Parallel configuration up to 10 units
- Capable to operate in N+1 redundancy configuration for very high reliability in remote area

- 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
- Seperate 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)
- Capable to make in 3 phase configuration (option)
- ISO 9001 and ISO 14001 certified factory



N+1 Configuration for village with stable load power

The system demands for high reliability of operation



LEONICS®

APOLLO S-210p series Bidirectional Parallel Inverter

SPECIFICATIONS

MODEL		S-218Cp	S-219Cp
POWER	Rated Power	3.5 kVA / 3.5 kW	5.0 k VA / 5.0 kW
	Max. power at 25˚C for 1 hour	4 kW	5.5 kW
BATTERY	Nominal Voltage	48 Vdc	
	Maximum charging current	40 A	60 A
AC SOURCE (GRID LINE OR GENERATOR)	Recommended generator power	6 kVA	8 kVA
	Voltage	220 / 230 / 240 Vac (L-N) ± 10%	
	Phase	Single phase	
	Frequency	50 / 60 Hz ± 3 Hz	
	Max. AC current (for charge mode)	15.9 A	22.7 A
	Start / stop generator	Relay dry contact 10 A (ACC contact)	
AC OUTPUT	Voltage	220 / 230 / 240 Vac (L-N)	
	Voltage regulation	± 1% (steady load), < 7% at 100% step load within 0.1 sec.	
	Phase	Single 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	15.9 A	22.7 A
ISOLATION	Galvanic isolation	yes	
EFFICIENCY	Inverter peak efficiency	> 96%	
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), Load (voltage, frequency), Battery (voltage, current, state of charge (%)), External DC charging current, Equalization charge date, Heat sink temperature, Battery temperature (option), Today AC inverter energy (input / output), Today DC inverter energy (input / output), Accumlated AC inverter energy (input / output), Accumlated DC inverter energy (input / output), System status, Load transfer switch signal status, Digital input signal status, Time, Date, Data 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 REGULATION	Standard	AS/NZ 3100:2002, IEC 61683 (for efficiency test)	
DIMENSION	W x H x D	60 x 86.5 x 46 cm	
WEIGHT	Approximate in kg	104 kg	

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

Authorized Distributor

LEO ELECTRONICS CO.,LTD.

27, 29 Soi Bangna-Trad Rd 34, Bangna, Bangna, Bangkok 10260 THAILAND
Tel. 0-2746-9500, 0-27468708 Fax. 0-2746-8712 e-mail : RNE@leonics.com

▪ www.leonics.com ▪

Authorized Dealer