

APOLLO SPN-series

Stand-alone Solar Pump Inverter



Reliability

- Integrated with PWM and MPPT control
- Pump dry running protection
- Surge protection according to IEC 61000-4-5
- ISO 9001 and ISO 14001 certified factory

Cost effectiveness

- No engine, not consume fuel
- No battery needed

Flexibility

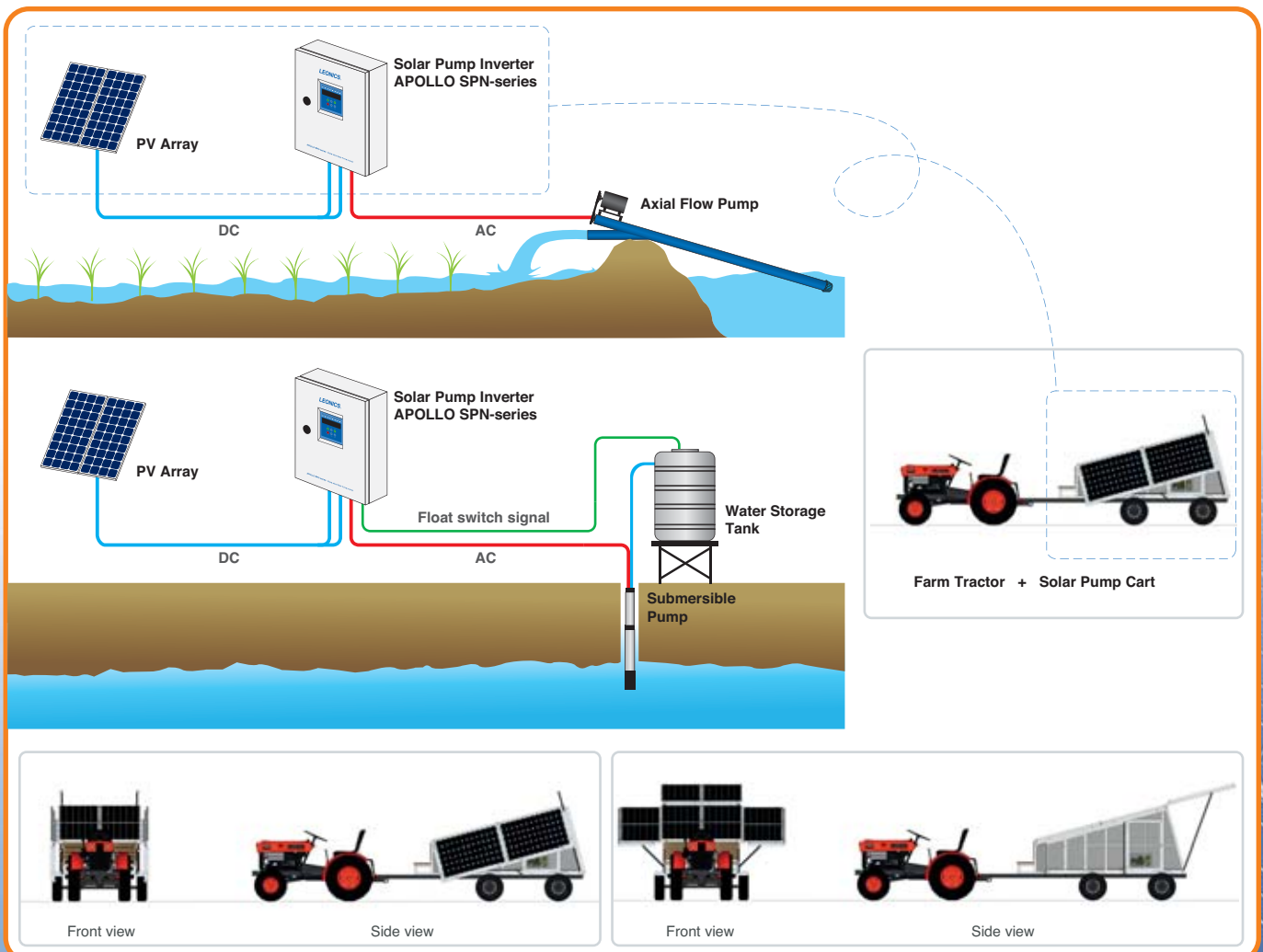
- Compatible with single phase PSC and multi-phase AC induction motor pump (0.5 - 3 HP)
- Suitable for variable pump type such as submersible pump, centrifugal pump or axial flow pump
- Wide PV input voltage range for accepting multi PV strings configuration and different type of PV module (depending on motor pump rating)
- Adjustable voltage and frequency

Smart

- Automatic PV voltage detection
- Low starting current and high starting torque
- Easy installation and pump connection

Application

- Solar pumping cart as optional for using with farm tractor
- Suitable for livestock watering and agricultural irrigation



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MODEL		SPN-216	
RATED POWER	PV input	3 kWp	
	AC Output	220 Vac, 3 Horsepower	
PV INPUT	MPPT voltage range (V_{mp})	100 - 420 Vdc	
	Maximum open circuit voltage (V_{oc})	440 Vdc	
	Maximum PV input current	12 A	
AC OUTPUT	Voltage	100 - 220 Vac	
	Frequency	5 - 65 Hz	
	Pump	1-phase PSC	220 Vac, 50 / 60 Hz, 0.5 - 2 HP
		2-phase or PSC without capacity run	220 Vac, 50 / 60 Hz, 0.5 - 3 HP
3-phase		220 Vac, 50 / 60 Hz, 0.5 - 3 HP	
EFFICIENCY	Inverter peak efficiency	97%	
PROTECTION		Under voltage shutdown, Over voltage shutdown, Over current, Lightning protection In and Out (IEC 61000-4-5), Pump dry running	
INDICATOR	LED	Run, Stop, Auto, In, Out, Float Switch, Program, Error	
	7-Segment LED display	PV voltage, DC bus voltage, Motor current, Motor frequency Temperature, Time, Error (Inverter over current, Motor phase loss, Over voltage, Low PV voltage, High motor current (Motor overload), Low motor current (dry run), High temperature), Setting	
COOLING SYSTEM		Natural convection	
ENVIRONMENT	Temperature	5 - 40°C	
	Relative humidity	0 - 95 % (Non - condensing)	
DESIGN STANDARD	Enclosure type	IP54	
DIMENSION	W x H x D (mm)	280 x 350 x 150	
WEIGHT	Approximate in kg.	9.2	

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

Variable & Flexible:

- Can use with wide range 0.5 - 3 HP of AC induction pump.
- Can operate with single phase, 2-phase or 3-phase motor.
- Suitable for variable pump type such as submersible pump, centrifugal pump or axial flow pump.



Authorized Distributor

LEO ELECTRONICS CO.,LTD.

27, 29 Soi Bangna-Trad Rd 34, Bangna, Bangkok 10260 THAILAND
 Tel. 0-2746-9500, 0-2746-8708 Fax. 0-2746-8712 e-mail : RNE@leonics.com

▪ www.leonics.com ▪

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