

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

Application

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

Flexibility

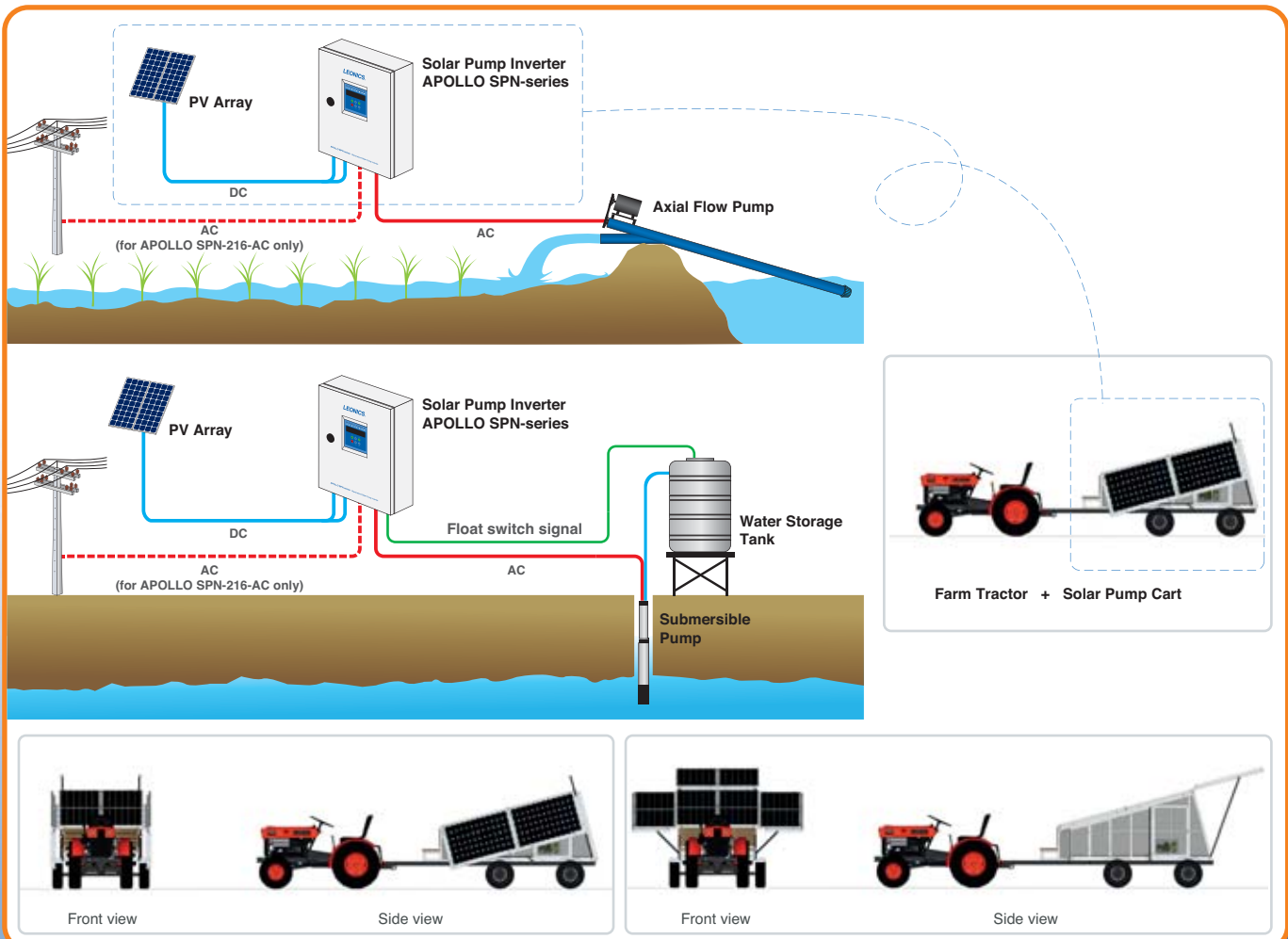
- Compatible with single phase PSC and multi-phase AC induction motor pump (0.5 - 3 HP)
- Suitable for variable pump type such as submersible pump, centrifugal pump or axial flow pump
- Wide PV input voltage range for accepting multi PV strings configuration and different type of PV module (depending on motor pump rating)
- Automatic switch to utility power when PV power is not sufficient to operate pump (only APOLLO SPN-216-AC)
- Adjustable voltage and frequency

Smart

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

Cost effectiveness

- No engine, not consume fuel
- No battery needed



MODEL		SPN-216	SPN-216-AC	
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		
	Starting voltage	> 100 Vdc	> 135 Vdc start by PV < 60 Vdc start by AC	
AC INPUT	Voltage and frequency	-	*220 Vac, 50 / 60 Hz	
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, 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		

* The APOLLO SPN-216-AC can operate with only 1-phase and 2- phase motor pump. 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.
- APOLLO SPN-216 can operate with single phase, 2-phase or 3-phase motor.
- APOLLO SPN-216-AC can operate with single phase or 2-phase motor.
- Suitable for variable pump type such as submersible pump, centrifugal pump or axial flow pump.



Authorized Distributor

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