

APOLLO SPN-HY

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

- Automatic start-stop timer
- Compatible with float switch and flow switch
- Solar pumping cart as optional for using with farm tractor
- Suitable for livestock watering and agricultural irrigation

Flexibility

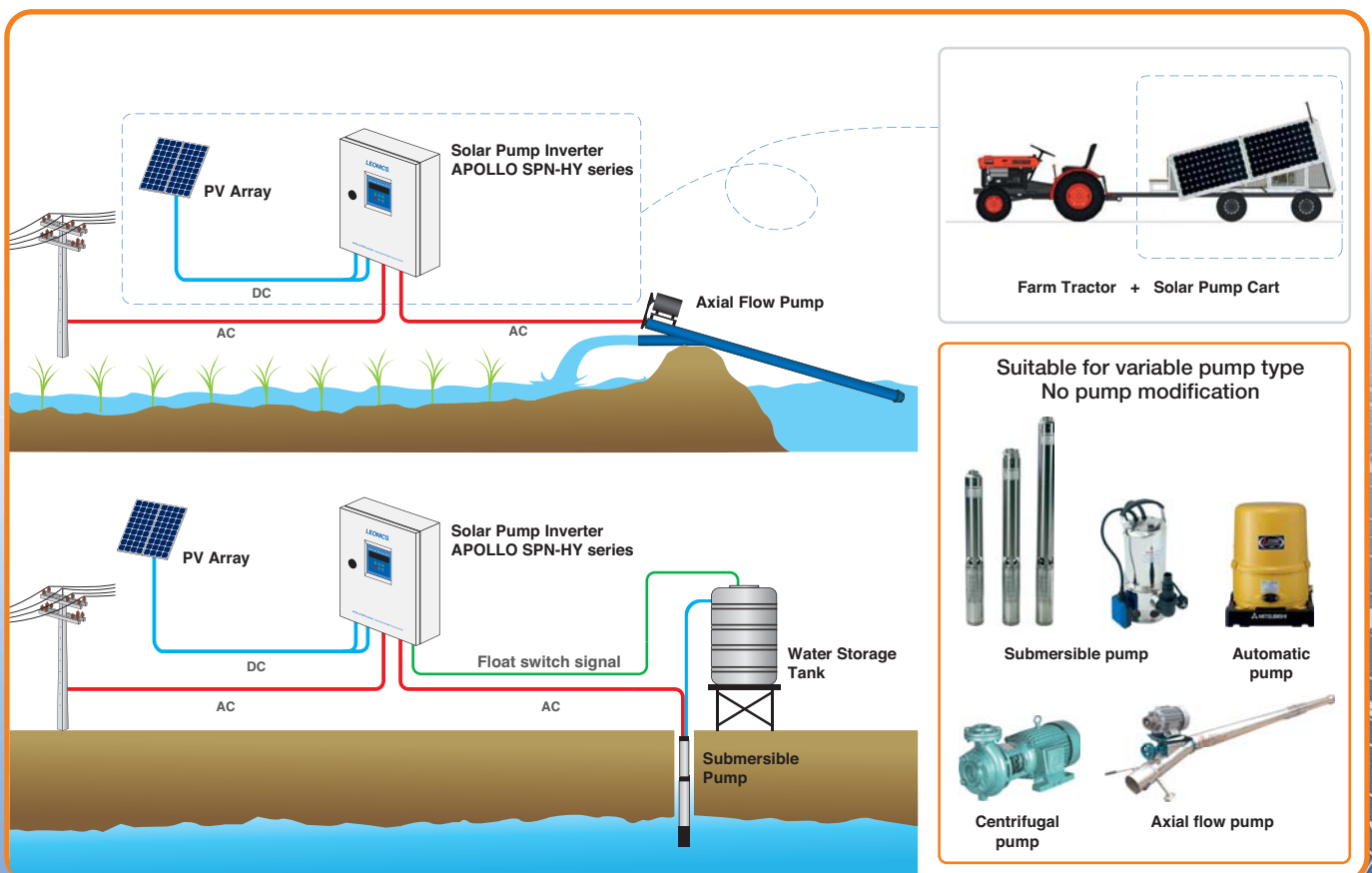
- Compatible with single phase PSC and 3-phase AC induction motor pump (0.5 - 3 HP)
- Suitable for variable pump type such as submersible pump, centrifugal pump or axial flow pump
- Wide PV input voltage range for accepting multi PV strings configuration and different type of PV module (depending on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

Smart

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

Cost effectiveness

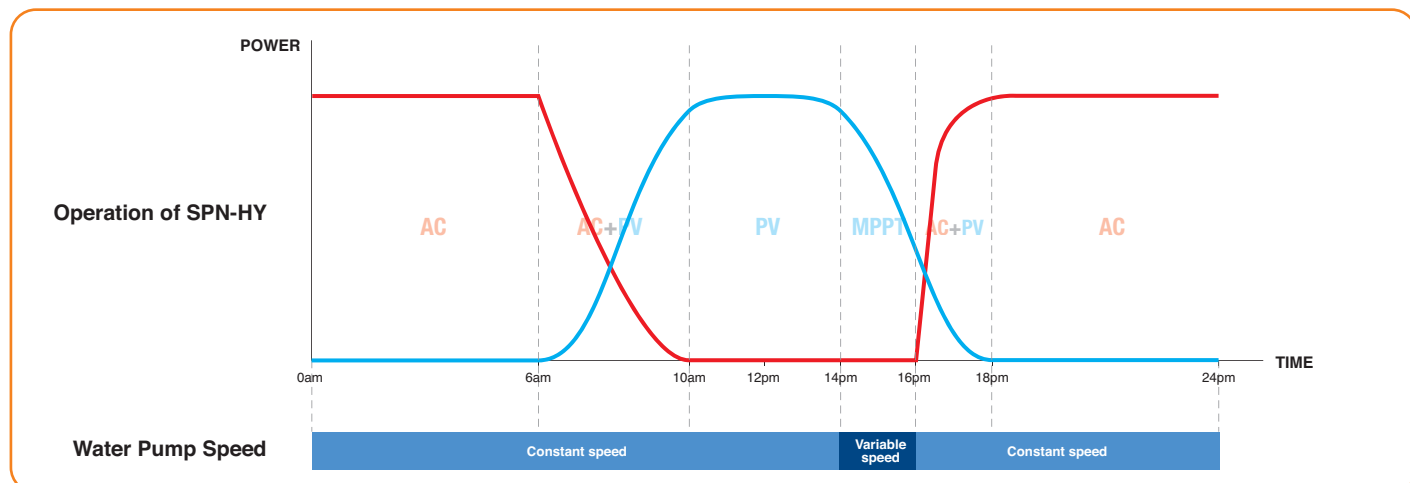
- No engine, not consume fuel
- No battery needed



MODEL		SPN-21610HY	SPN-21615HY	SPN-21620HY	SPN-21630HY
PV INPUT	Maximum PV input power	1.2 kWp	1.8 kWp	2.4 kWp	3.6 kWp
	MPPT voltage range (V_{mp})	100 - 420 Vdc			
	Maximum open circuit voltage (V_{oc})	440 Vdc (for high performance of PV electricity generation, it need to install PV panels which have the value of Voc nearest 440Vdc)			
	Maximum PV input current	4 A	6 A	8 A	12 A
AC INPUT	Voltage and frequency	220 Vac, 50 / 60 Hz			
	Voltage range	200 - 260 Vac			
	Maximum AC current	5.5 A	8.3 A	11 A	16.5 A
	Power factor	> 0.99 at maximum power			
AC OUTPUT	Voltage	100 - 220 Vac			
	Frequency	30 - 50 Hz			
	Power	1 HP	1.5 HP	2 HP	3 HP
	Pump 220 Vac, 50 / 60 Hz	1-phase PSC	0.5 - 1 HP	0.5 - 1.5 HP	0.5 - 2 HP
		3-phase	0.5 - 1 HP	0.5 - 1.5 HP	0.5 - 2 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	Submersible pump installation depth	< 50 m (cable length < 60 m)			
	Temperature	5 - 40°C			
	Relative humidity	0 - 95 % (Non - condensing)			
DESIGN STANDARD	Enclosure type	IP54			
DIMENSION	W x H x D (mm)	280 x 290 x 150 mm			
WEIGHT	Approximate in kg.	8.95 kg			

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

Optional: 1) Inverter mounting brackets (SPN-PVS1020) for mounting on PV structure (PVS1020).
2) PV cables kit (SPN-MC4M601, SPN-MC4F605 and SPN-MC4K605)
3) AC cables kit (SPN-VCT32510)



Authorized Distributor

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