



SOLAR PUMPING SYSTEM

NEPTUNE™

Let the Light be Life™

Istar Solar® pumping system **NEPTUNE**™ is a complete and stand-alone system capable of pumping ground-water directly where needed, by means of photovoltaic modules and a special submersible pump suitable for heads from **0 to 150 meters**. Our system has a small and high efficiency stainless steel pump and it has been properly designed for DC functioning. The inside of this pump, where the opposed sealed pistons engine is placed, is completely sealed and waterproof. The dimensions of the pump are : diameter **98 mm**, length **760 mm** and weight about **13 kg**. It is fitted also with a rapid coupling suitable for use with **25mm** polyethylene feed pipe.

NEPTUNE™ system, both **24** and **48** volts, has been studied to obtain the best performances for capacities ranging from **1.100** to **8.600** litres/day, accordingly to the depth of installation and the cam requested: 2 – 2,6 – 3 mm.

Istar Solar can supply two different systems:

NEPTUNE™ system constituted by:

- 2 modules IS90P 90Wp 12V each;
- 1 submersible pump with 2mm cam;
- 1 electronic pump controller.

NEPTUNE™ **Plus** in case of low heads and high capacities, costituted by:

- 4 modules IS90P 90Wp 12V each;
- 1 submersible pump with 2 - 2,6 - 3mm cam;
- 1 electronic pump controller.

This pumping system can be used for various applications such as :

- Supply of water for cattle and animal, in remote areas
- Private farms and ranches
- Governmental wildlife parks
- Remote residences for drinking water supply
- Village water supply for under developing countries
- and many others more.....



Performances of Neptune™ system and Neptune™ system Plus

Type	Cam mm	N.Modules/Wp	Head					
			0 mt	25 mt	50 mt	75 mt	100 mt	150 mt
			Lt/Day	Lt/Day	Lt/Day	Lt/Day	Lt/Day	Lt/Day
Neptune	2	2 x 90Wp	3.400 (360Lt/h)	2.200 (280Lt/h)	1.600 (230Lt/h)	1.100 (200Lt/h)	----	----
Neptune Plus 20	2	4 x 90Wp	6.500 (650Lt/h)	3.600 (500Lt/h)	3.000 (440Lt/h)	2.700 (390Lt/h)	2.200 (330Lt/h)	1.400 (230Lt/h)
Neptune Plus 26	2,6	4 x 90Wp	7.900 (880Lt/h)	4.800 (650Lt/h)	3.500 (540Lt/h)	2.600 (370Lt/h)	----	----
Neptune Plus 30	3	4 x 90Wp	8.600 (950Lt/h)	5.600 (750Lt/h)	4.300 (650Lt/h)	----	----	----



Istar Solar® reserves the right to change the features of systems without notice

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