

FORMAT FOR SYNOPSIS OF INDIAN STANDARDS

Number and Title of the Indian Standard: IS 17429: 2000/
Doc No MED/20/13071 Solar Photovoltaic Water Pumping Systems — Testing Procedure Guidelines

a) Scope: These Guidelines lays down basis for testing set up and testing procedures for Solar Photovoltaic (SPV) water pumping system. The SPV water pumping system covered are centrifugal pumps of all types from 0.75 kW/1 HP up to 7.5 kW/10 HP capacity.

b) Salient features of content: This Standard includes definition of Systems and parameters, Test setup, Test procedure for performance evaluation of SPV pumping system, Measurements and apparatus, Calibration of apparatus, Step-wise test procedure, Recording of observation, Computation of test readings, Method for use of other brand of solar modules & Examples of calculations.

c) Types/grades/classes, if any covered in the standard: -----

d) Disclaimer (to be automatically provided by the program/software)

e) Write up: This standard is primarily intended to introduce testing set up and testing procedures for Solar Photovoltaic (SPV) water pumping system, testing requirements for solar photo voltaic water pumping systems and prescribes the method of measurement of performance and energy efficiency rating and testing for performance.

The manufacturers of solar powered water pump set offer an array of equipment to meet the diverse applications of markets. The complexity of the product offering precludes the testing of each and every model. However, to promote consistency in the representation of solar powered water pump set performance by all manufacturers; this standard establishes uniform rating and testing methods. It is intended that equipment testing shall be done in laboratory where the instrumentation and load stability as defined in the standard can be provided.

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