INTRODUCTION TO SINGLE AXIS AUTOMATIC TRACKERS

Vistar Electronics Pvt; Ltd is pleased to announce the introduction of a single axis automatic Photovoltaic tracker-

Applications:

- 1. PV direct water Pumping systems: **Increased wire/water efficacy**The energy yield and water output is expected to be enhanced by approx 2025% v/s fixed tilt solar installations.
- 2 Small grid connected systems-PV direct-Local Grid feed-PV direct systems/Battery charging PV array.

Product range:

s/n	Model	PV Module	No. of	Wp	Stand	Ganged	Max Nos
	Number	area	Modules	max/Module	alone	Units	that can be
		Sq Mtr-	*				ganged by
		Each *					One actuator
1	AT-1-6	1.98x0.99	3	280/300 Wp	Y	Y	3
2	AT-1-8	1.98x0.99	4	280/300 Wp	Y	Y	3
3	AT-1-12	1.98x0.99	6	280/300 Wp	Y	Y	2
4	AT-1-16	1.98x0.99	8	280/300 Wp	Y	N	0
5	AT-1-18	1.98x0.99	9	280/300 Wp	Y	N	0
6	AT-1-24	1.98x0.99	12	280/300 Wp	Y	N	0

 *: for Modules with different area & Type-please consult us giving module dimensions & Qty to install

Salient features:

- 1. Simple-sunrise-sunset mathematical equation based control-directives-real time clock based. Interface to a local Port available as option.
- 2. Decided by the site's "latitude and Longitude-" to be user specified.
- 3, Open loop system-capable of using actuator position reference for local knowledge-of the position.
- 4. Locally powered by a 12 V 20Wp solar panel and suitable Battery-charge regulator for the control supply to be active 24x7 (2 sunless day autonomy for sites-where daily average solar insolation is minimum 4.5 kwh/sq.meter/day)
- 5. Simple to install at sites. Local LCD display 2 x 16 alpha numeric type available.
- 6. Option to attach "manual operation fitments" when specified,.
- 7. Adjustment for fixed tilt-Due south/North for the installation location.

 East West Tilt tracking angle range coverage approx- -45-0-+45 deg facing due South/North.
- 8. Azimuth tracking @ fixed (adjustable tilt angles) are optionally available.

Specifications shown above are tentative-subject to change for design optimization.

Vistar Electronics Pvt. Ltd. December 2013