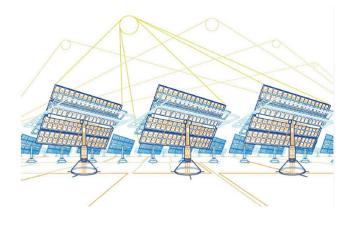
Automation Products AC500 – Software Library Product News – Solar Software Library for AC500

Ideal for Solar applications:

- Where direct sunlight is dominant
- Where concentration is used
- Photovoltaic (PV)
- Concentrating photovoltaic (CPV)
- Thermal to cylinder-parabolic (CSP)
- Solar tower plant



The Library Package features:

- Covers different solar tracker configurations
- Example programs for AC500 and AC500eCo with detailed explanations and visualization
- Coordinated positioning of different oriented axes
 - Primary and secondary axes
 - Misalignment correction
- Positioning algorithms with the following accuracies:
 - NOAA algorithm 0.03 Grad
 - NREL algorithm 0.0003 Grad
- Backtracking for Photovoltaic
- Different Input / sensor adaptation,
- Different actuators / drives control and communication possible
 - Bus connection with ABB ACS Drives Library (from new Automation Builder or free download package for upgrade)
 - IO connection
 - Hydraulic actuators
- Mode blocks for all operation modes for simple
 - Commissioning,
 - Automatic and manual operation
 - Calibration

- Service
- Secure position (for storm)

Real Benefits:

Time saving, complete library package for different tracking use cases

- Proven in many thousands of trackers (ABB internal)
- Simplified programming: All needed blocks for
 - Exact positioning of different axes
 - Input / sensor adaptation
 - Communication
 - Actuators / drives control
- Simple commissioning and manual operation
 - Fast and simple calibration of the trackers, offering manual repositioning and fine tuning
- Plug and play: Example program with detailed explanations and visualizations

Energy consumption optimization

 Control of the tracker adaptable to different needs and conditions, to achieve maximum efficiency of installation

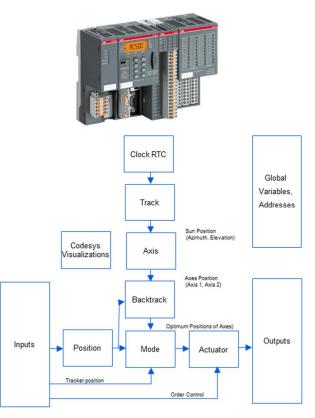
Page 1 of 2

Power and productivity for a better world[™]



Automation Products AC500 – Software Library Product News – Solar Software Library for AC500

Functional Library Structure:



Ordering Information:

Order Codes	Product Description	
1SAP195000R0001	PS562-SOLAR	
	AC500,Solar library single	
	license, Tracker function	
	blocks SW library, USB Stick	
	with documentation	

Choice betwee two position algorithms

Function	Azimuth error	Elevation error	CPU * needs (2 axes)
NOAA 笅	± 0.01°	± 0.03°	PM554 and above
	± 0.0003°	± 0.0003°	PM573 and above

* with full program for 2 axes

Example Tracker Components:

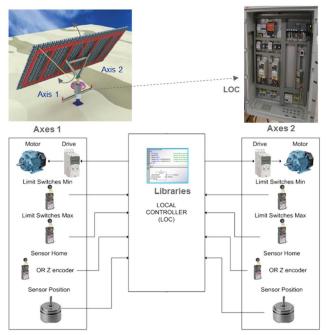


ABB Automation Products GmbH

Wallstadter Str. 59 68526 Ladenburg, Germany Phone: +49 (0) 6221 701-1444 Fax: +49 (0) 6221 701-1382 Email: plc.sales@de.abb.com www.abb.com/plc

www.abb.com/drives

Note:

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.

Copyright© 2013 ABB - All rights reserved

Page 2 of 2

Power and productivity for a better world™

