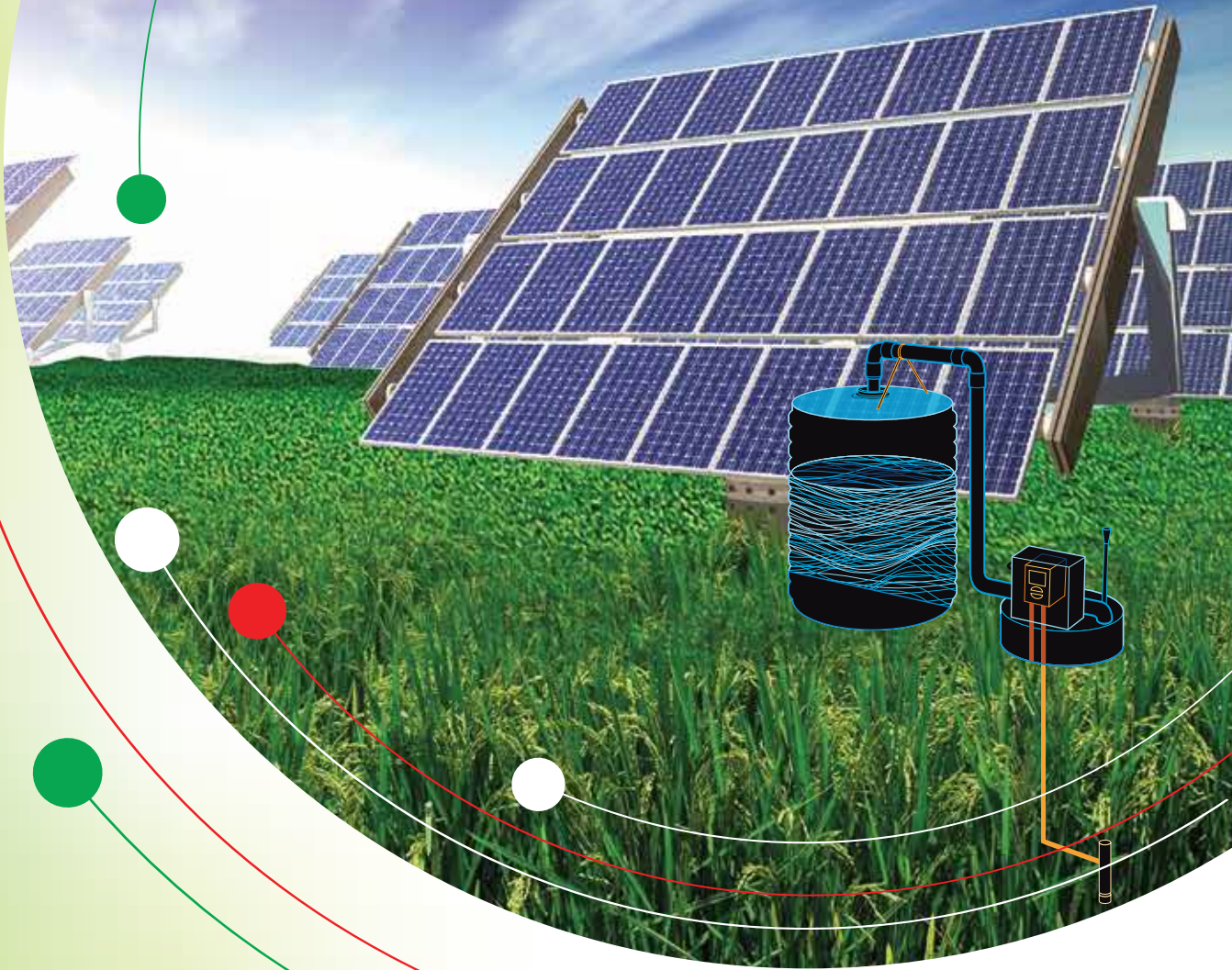


Low Voltage AC Drives

Solar Pump Drives

0.37 to 45 kW



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GEESYS™

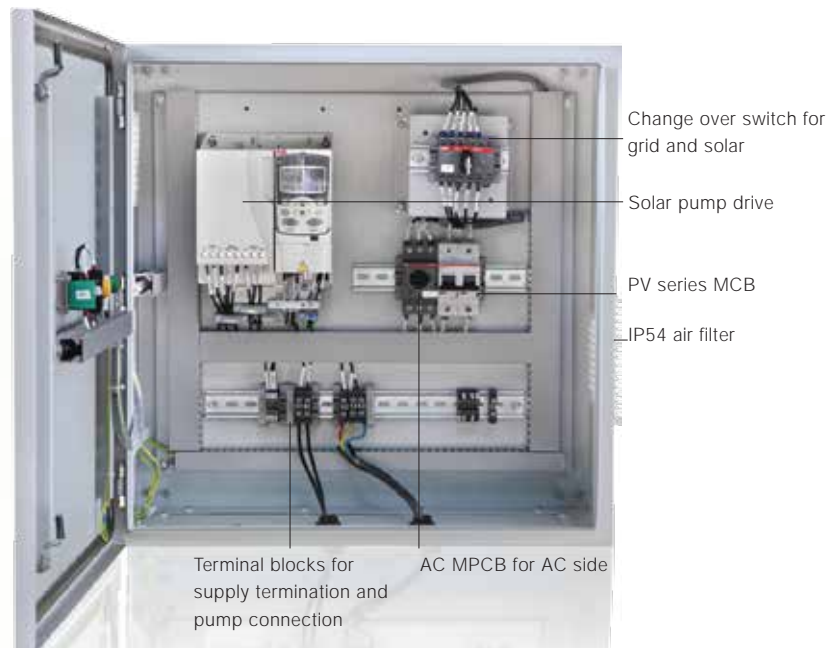
Expert in General Electrical & Electronic SYStems

Solar Pump Drives

GEESYS SOLAR PUMP DRIVE CABINETS

0.37 to 18.5 kW

Designed to run with PV cells input without grid connection. The drive has an option to run with both solar PV cell and grid connected supply. The drive can be installed in the cabinet or as standalone unit using IP54 protection class.



Cabinet with both grid and solar input

Highlights

- 🔌 In-built Maximum Power Point Tracking system (MPPT)
- 🔌 Low voltage operation
- 🔌 Sensor-less dry run protection in-built
- 🔌 Quick commissioning and panel assistant
- 🔌 Sensor-less flow calculation
- 🔌 Automatic change over (optional)
- 🔌 Multi-pump logic (optional)

Saving time in installation and commissioning

- 🔌 The drive compact mounting option enables the flexible installation in restricted space
- 🔌 Limited number parameter required for the commissioning

Features

- 🔌 Dry run protection
- 🔌 Supports DC voltage from 110V-800V
- 🔌 Supports maximum pump output with available DC voltage
- 🔌 Auto start - Auto stop
- 🔌 Auto fault reset
- 🔌 Pump clean
- 🔌 Display of pump running hour, flow and saved energy
- 🔌 Earth fault protection
- 🔌 Motor jamming protection
- 🔌 I/O and fieldbus extension slots inside
- 🔌 Safe torque-off (STO)

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Cubicle

- Panel manufactured for outdoor mounting
- Paint color: Light beige RAL 7035 semi-gloss
- IP54 protection degree

Power and voltage range

Power

- 0.37 – 18.5 KW

Voltage

- 110 - 400 V DC
- 225 - 800 V DC

Accessories

- Provision for AC supply
- Alphanumeric control panel with startup assistant feature
- DC fuses with fuse base
- Analog voltmeter indication
- Output choke
- Sine filter
- Remote monitoring
- Phase failure relay
- Fieldbus modules Plus tailor made options through Geesys's application engineering

Product compliance

- UL, cUL, CE, C-Tick and GOST R approvals
- IEC 61683
- IEC 60068-2 (1,2,14,30)
- Low voltage directive 73/23/EEC with supplements
- EMC directive 89/336/EEC with supplements
- Quality assurance system ISO 9001
- Environmental system ISO 14001
- RoHS compliant
- DIN40050-9 (IP69K)



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Technical Data

Input side	ACS355-0XE-0XAX-2+N827	ACS355-0XE-0XAX-4+N827
Absolute maximum DC input voltage (Vmax, abs)	400 V	800 V
Start-up DC input voltage (Vmin)	110 V	225 V
Operating DC input voltage range	110 V ... 400 V	225 V ... 800 V
Rated DC input voltage	310 V	570 V
Rated DC input current	Pump current	
Input side protection	Short circuit, over voltage, under voltage	
DC connection type	Screw type terminal block	
Rated AC input voltage	200 to 240 V \pm 10%	380 to 480 V \pm 10%
Rated AC input frequency	48 to 63 Hz	
AC connection type	Screw type terminal block	
Output side		
AC voltage range 0 ...	230 V 0 ...	415 V
Rated output frequency	0 ... 600 Hz	
Output side protection	Sensor less dry run protection, short circuit protection, motor phase loss, earth fault protection	
Electrical parameters		
Efficiency	>97% at rated current of drive	
Ambient temperature	-15 to 50 deg C, derating above 40 deg C	
Relative humidity	Max 95%, No condensation allowed	
Mechanical specification		
Enclosure dimension	600 (H) x 600 (W) x 300 (D)	
Mounting arrangement	Wall mounting	
Cable entry	Removable bottom gland plates for incoming cables	
Cabinet material	CRCA	
Paint shade	RAL7035 internal and external	
Degree of protection	IP54 with louvers	

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