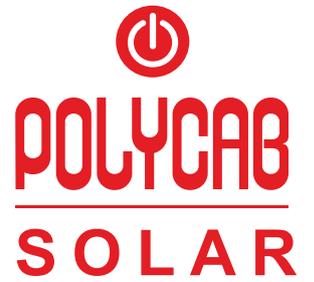


THE GOLD STANDARD OF SOLAR PUMPING SYSTEMS

Highly flexible, reliable and efficient series of solar pump inverters

**POLYCARB**
SOLAR



Transformerless design and compact in size



DSP technology: Combines Inverter, MPPT & Variable frequency algorithm



No settings/programming reqd. Plug-n-play system makes installation easy



Inbuilt dc-dc boosters makes system 25% - 30% more efficient than other solar pump inverters



LCD Display & LED indicators for easy viewing



All relevant protections including integrated DC switch and Ip65 enclosure



Equipped with remote monitoring facility



MPPT efficiency at 99.5%; System efficiency at 97%

TECHNICAL SPECIFICATIONS				
Power Rating	0.5 HP, 1HP	2HP	3HP	5HP
Control Device	Digital Signal Processing (DSP) with space vector modulation			
Controller Topology	Interleaved Maximum Power Point Tracking (MPPT)			
Switching Element	IGBT			
INPUT AND OUTPUT DATA				
Max. DC Power (KW)	1.5kw	2.5kw	3.5kw	6kw
MPPT / Optimal Operating Range (VmP)	150-450V			450-750V
Max Input Voltage (Voc)	900V			
Boosted DC voltage (V)	600V			
Output	Pulse Width Modulated			
Output Voltage (Vac)	380 VAC 3 Phase			
Output Frequency	0-50 Hz			
Max. Output Current (Iac)	3A	5A	7A	9A
PROTECTION & INDICATIONS				
Integrated DC Isolator Switch, Built in dry run & no load protection, Built in surge / lightning protection, Reverse polarity protection, Short circuit protection, Input DC Fuse protection, Input PV Over-voltage protection, Input PV Over-Current protection, Excess Load Ampere Cut-off, Over-temperature cut-off., Protection against phase imbalance. LED indicators for Reverse Polarity Cut-Off, Fuse Monitoring, System ON, Fault, Remote Monitoring & Mains/Grid ON.				
GENERAL DATA				
MPPT Efficiency	> 99%		> 97%	
Overall Efficiency	> 95%			
Operating Temperature	-10 ⁰ c to 60 ⁰ c			
Topology	Transformerless			
Head Range	Up to 1000 feet (vertical) and upto 30,000 feet (horizontal)			
Cooling Method	Natural convection via heat sink			
Pump	3-phase pump			
Working Hours	7-9 hours depending on sunlight			
Environmental Protection Rating	IP 65 (IEC 60529)			
Dimensions (w x d x h) & Weight	270x150x400 mm, 12.5 kg			
Packaging Dimensions & Weight	320X200X450 mm, 13.5 kg			
FEATURES				
Display	16 x 2 inch LCD			
Optional Features	GSM based Remote monitoring, Water Level Sensor, Mains/Grid Changeover Switch			
Input and Output Connectors	Terminal Blocks			
Replacement Warranty	1 year, extendable upto 5 years			
STANDARDS				
Efficiency	IEC 61683			
Environmental	IEC 60068-2-1, IEC60068-2-2, IEC 60068-2-14, IEC 60068-2-30			
Safety	IEC 62109-1, IEC 62109-2			

Note: Specifications are subject to change

Corporate Office:

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Email: solar@polycab.com | Web: www.polycab.com

For Consumer Complaint Contact : Officer, Consumer Care Cell

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Authorised Distributor / Dealer