

# Sunbird 7000

**Solar Inverter - 1 to 12.5 kW**

Single Phase Output



## Special Features

- Multiple 32 bit DSP controllers
- Battery less operation
- High efficiency
- True Bi-directional Solar Inverter
- Higher Array voltage capacity optionally available
- Inbuilt charge controller
- MPPT - Achieved through Incremental Conductance Algorithms
- Battery charging through Grid up to 100%
- Selectable source feature - Grid / Battery
- DC fan for low power consumption
- Inbuilt isolation transformer for galvanic isolation
- 128 x 64 Graphics display
- Variable fan speed - for increased reliability, results into lesser dust suction inside the cabinet



Technical Specifications - Sunbird 7000					
System Rating (KW)	5kVA	10kVA	20kVA	25kVA	30kVA
<b>Input</b>					
Maximum Voltage	1000 V				
MPPT Voltage Range	300 - 850V				
Maximum Current	15A	30A	65A	80A	100A
DC Start	350V				
MPPT Voltage range	350-800V				
Maximum PV power recommended (KW)	5.5kW	11kW	22kW	27.5kW	5.5kW
No of MPPT Controller	1 MPPT				
NO of DC Connection	2 Pair				
Connection Type	SUNCLIX			BUS BAR	
DC Switch Disconnect	Inbuilt				
<b>Output</b>					
Nominal Power (kVA)	5kVA	10kVA	20kVA	25kVA	30kVA
Nominal Voltage	400V AC 3-Phase				
Grid tracking Voltage	400V + 20%				
Maximum Current	50 Hz				
Nominal Frequency (Hz)	7A	14A	28A	36A	43A
Grid Tracking Frequency	45 Hz - 55 Hz				
Power Factor at Rated load	~ 0.99				
Adjustable PF range	0.8 lag to 0.8 Lead				
Harmonic Distortion lthd	<5 %				
<b>System Data</b>					
Maximum Peak Efficiency	96%			97%	
Cooling	Forced Cooling				
Construction	Monolithic Wall Mounted				
Dimension (WxDxH)	620 X 325 X 810mm			720 X 365 X 1175mm	
Protection Class	IP-54				
Noise @ 1 meter(dBA ± 2dBA)	< 55 dBA				
Colour	RAL 7016 Texture				
<b>User Interface</b>					
Front Panel	128 x 64 LCD and LED				
Standard Communication	Rs485 with MODBUS protocol				
Sensor Port	Solar Radiation, Cell Temp., Ambient Temp.				
Indications	Grid On				
	Feeding				
	Fault				
<b>Environment</b>					
Location	IEC 60068-2 (1,2,14,30), IEC 61683, IEC 61727, IEC 62116, IP-54(For Outdoor) / IP 21(for Indoor) As per IEC 52				
Temperature Operating(°C)	-10 to +50				
Max. Relative humidity @25°C (non condensing) (%)	Up to 95				
Max. Altitude above sea level without de-rating	1000 m (For higher altitude complies with IEC/EN 62040-3)				
<b>Standard Compliance</b>					
Testing	IEC 60068-2 (1,2,14,30), IEC 61683, IEC 61727				
	IEC 62116, IP-54(For Outdoor) / IP 21(for Indoor) As per IEC 52				
<b>Option</b>					
	Emergency off				

► All specifications are subject to change ► Custom models available on request

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