



BEST RESULTS EVEN IN PARTIAL SHADE

IBC ServeMaster 1650MV - 4600MV

INVERTER

The IBC ServeMaster inverters are truly innovative. Up to three MPP trackers compensate for potential performance loss in partial shade or in the case of varying module alignments. And the system also tolerates voltage fluctuations that frequently occur in grids – thanks to the ride-through technology. This means that it does not shut off immediately, but instead remains connected to the grid somewhat longer, thus ensuring that electricity is fed into the grid for as long as possible. A useful added benefit is that the communications interface for system monitoring is integrated as a standard feature at no extra charge.

HIGHLIGHTS

- Ideal for small and medium photovoltaic systems
- Up to 3 individual DC inputs with separate MPP trackers
- High MPP tracker adaptation efficiency:
 - 99.9% static
 - 99.8% dynamic
- Master/slave
- Ride-through technology
- Simple system monitoring thanks to integrated communications interface
- Suitable for outdoor installation
- For servicing: integrated DC switch in accordance with DIN VDE 0100-712
- 5-year product warranty - optional extension to 10 years*

TECHNICAL DATA

IBC ServeMaster	1650MV	2750MV	3300MV	4000MV	4600MV
Input					
DC-nominal power (W)	1800	3000	3600	4375	5400
Max. input current (A)	10;10	10;10	10;10	10;10;10	10;10;10
Max. input voltage(V)	450	450	450	450	450
Min. MPP-voltage at nominal Uac (V)	180	150	180	145	180
Max. MPP-voltage (V)	350	350	350	350	350
differing max DC-voltage (V)	410	410	410	410	410
Output					
AC-nominal power (VA)	1650	2750	3300	4000	4600
Power factor (cos phi)	ADJUSTABLE	ADJUSTABLE	ADJUSTABLE	ADJUSTABLE	ADJUSTABLE
Min. AC frequency (Hz)	45	45	45	45	45
Max. AC frequency (Hz)	55	55	55	55	55
Min. AC grid voltage (V)	195,5	195,5	195,5	195,5	195,5
Max. AC grid voltage (V)	264,5	264,5	264,5	264,5	264,5
number of grid input phases	1	1	1	1	1
Degree of efficiency					
Max. efficiency (%)	93,7	94,2	94,2	93,7	94,3
Euro. efficiency (%)	91,6	92,9	93,4	93,1	93,4
Operating consumption in night mode (W)	0,2	0,2	0,2	0,2	0,2
Security					
Technology	TRANSFORMER	TRANSFORMER	TRANSFORMER	TRANSFORMER	TRANSFORMER
Conditions					
Ambient temperature (°C)	-25 TO 60	-25 TO 60	-25 TO 60	-25 TO 60	-25 TO 60
Humidity (%)	0 TO 95	0 TO 95	0 TO 95	0 TO 95	0 TO 95
Equipment					
Type of DC-connector	MC4	MC4	MC4	MC4	MC4
DC switch	YES	YES	YES	YES	YES
Protection rating (IP)	54	54	54	54IP54	54
Width (mm)	434	434	434	434	434
Height (mm)	489	618	618	747	747
Depth (mm)	192	192	192	192	192
Weight (kg)	17	20	20	23	23
Output cross section (mm²)	4	4	4	4	4
Articlenumber	3001000056	3001000057	3001000058	3001000075	3001000059

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- The inverter is already pre-programmed for 21 countries.

Your IBC SOLAR partner:

* Product and power warranty in accordance with the version of the full warranty conditions received from your specialized IBC SOLAR partner at the time of installation. This warranty is valid only when the relevant product is installed in accordance with the applicable installation instructions. Electrical values under standard test conditions: 1000W/m²; 25°C, AM1.5. 800 W/m², NOCT. Specifications according EN60904-3 (STC). All datas according DIN EN 50380. Subject to modifications that represent process.