

## INVERTER

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IBC ServeMaster 1650 MV, 2750 MV, 3300 MV, 4600 MV,  
1650 HV, 2750HV, 3300 HV, 4600 HV

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### PRODUCT ADVANTAGES:

Up to three individual DC string input with own mpp-tracker

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Master Slave

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Integrated DC switch

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Ride Through technique

High MPP tracker efficiency

■ 99.9% static

■ 99.4% dynamic

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Outdoor

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Guarantee standard 5 years, optional 10 years

**TECHNICAL DATA**

<b>IBC ServeMaster</b>		<b>1650 MV/1650 HV</b>	<b>2750 MV/2750 HV</b>	<b>3300 MV/3300 HV</b>	<b>4600 MV/4600 HV</b>
<b>Specification</b>					
Nominal power DC	W	1800	3000	3600	5400
Max. PV power	W	1950	3200	3900	5850
Nominal power AC	W	1650	2750	3300	4600
Max. power AC	W	1800	3000	3600	5000
Max. efficiency	%	93.70	94.20	94.20	94.30
Euro efficiency	%	91.60	92.90	93.40	93.40
Power factor		0.97 at > 20 % load	0.97 at > 20 % load	0.97 at > 20 % load	0.97 at > 20 % load
Turn on power	W	20	20	20	20
Standby consumption	W	8	8	8	8
Night consumption	W	< 0.2	< 0.2	< 0.2	< 0.2
<b>Voltages</b>					
Nominal voltage DC MV	V	310	310	310	310
Nominal voltage DC HV	V	430	430	430	430
MPP voltage MV	V	180 – 350	180 – 350	180 – 350	180 – 350
MPP voltage HV	V	260 – 500	260 – 500	260 – 500	260 – 500
Max. voltage DC MV indiv./parallel	V	450/410	450/410	450/410	450/410
Max. voltage DC HV indiv./parallel	V	600/550	600/550	600/550	600/550
Turn off voltage DC MV	V	100	100	100	100
Turn off voltage DC HV	V	200	200	200	200
AC voltage range	V	230 ± 15 %	230 ± 15 %	230 ± 15 %	230 ± 15 %
AC frequency range	Hz	50 ± 5	50 ± 5	50 ± 5	50 ± 5
<b>Currents</b>					
Max. current DC MV	A	10	20	20	30
Max. current DC HV	A	7	14	14	21
Nominal current AC	A	7.2	12	14.5	20
Max. current AC	A	8	13	15.5	23
Distortion (THD)	%	< 5	< 5	< 5	< 5
<b>Other</b>					
DC access		1	2	2	3
Number MPP-tracker		1	2	2	3
DC connections		MC 4	MC 4	MC 4	MC 4
Dimensions (l × w × h)	mm	489 × 434 × 192	618 × 434 × 192	618 × 434 × 192	747 × 434 × 192
Weight	kg	17	20	20	23
Acoustic noise level	dB (A)	55	55	55	55
Operation temperature range	°C	-25 to +60	-25 to +60	-25 to +60	-25 to +60
MPP efficiency	%	99.9	99.9	99.9	99.9
Overload operation		Change of operating point		Change of operating point	
Grid surveillance	U/f	Window and impedance monitoring		Window and impedance monitoring	
Protection class IEC 60529		IP54	IP54	IP54	IP54
Isolation monitoring		Included	Included	Included	Included
Serial communication		RS 485	RS 485	RS 485	RS 485
DC switch		DC switch	DC switch	DC switch	DC switch
Master Slave Modus		Parallel string operation/ Autodetection	Parallel string operation/ Autodetection	Parallel string operation/ Autodetection	Parallel string operation/ Autodetection
Directive LVD		73 / 23 / EC	73 / 23 / EC	73 / 23 / EC	73 / 23 / EC
Directive EMC		2004 / 108 / EC	2004 / 108 / EC	2004 / 108 / EC	2004 / 108 / EC
Safety		EN 50178	EN 50178	EN 50178	EN 50178
EMC immunity		EN 61000-6-1 EN 61000-6-2 EN 61000-4-13, -14, -28 EN 60146-1	EN 61000-6-1 EN 61000-6-2 EN 61000-4-13, -14, -28 EN 60146-1	EN 61000-6-1 EN 61000-6-2 EN 61000-4-13, -14, -28 EN 60146-1	EN 61000-6-1 EN 61000-6-2 EN 61000-4-13, -14, -28 EN 60146-1
EMC emission		EN 61000-6-3 EN 61000-6-4	EN 61000-6-3 EN 61000-6-4	EN 61000-6-3 EN 61000-6-4	EN 61000-6-3 EN 61000-6-4
Utility interference		EN 61000-3-2, -3	EN 61000-3-2, -3	EN 61000-3-2, -3	EN 61000-3-11, -12
Functional safety		DIN VDE 0126-1-1	DIN VDE 0126-1-1	DIN VDE 0126-1-1	DIN VDE 0126-1-1
EEG		Yes	Yes	Yes	Yes
Public power grid		IEC 61727, EN 50160	IEC 61727, EN 50160	IEC 61727, EN 50160	IEC 61727, EN 50160
Italy		DK5940	DK5940	DK5940	DK5940
Spain		RD1663	RD1663	RD1663	RD1663
Article numbers	MV	3001000012	3001000021	3001000013	3001000014
	HV	3001000015	3001000022	3001000016	3001000017

Subject to modifications that represent progress.

02-2010