

INVERTER

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



PRODUCT ADVANTAGES:

Up to three individual DC string input

Master/Slave

Integrated DC switch

Ride Through technique

High MPP tracker efficiency

■ 99,9% static

■ 99,4% dynamic

Outdoor

TECHNICAL DATA

IBC ServeMaster		1650 MV/1650 HV	3300 MV/3300 HV	4600 MV/4600 HV
Specification				
Nominal Power DC	W	1800	3600	5400
Max PV Power	W	1950	3900	5850
Nominal Power AC	W	1650	3300	4600
Max AC Power	W	1800	3600	5000/5400
Max efficiency	%	93.70	94.20	94.30
Euro efficiency	%	91.60	93.40	93.40
Power factor		0.97 at > 20 % load	0.97 at > 20 % load	0.97 at > 20 % load
Turn on power	W	20	20	20
Standby consumption	W	8	8	8
Night consumption	W	< 0.2	< 0.2	< 0.2
Voltages				
Nominal Voltage DC MV	V	310	310	310
Nominal Voltage DC HV	V	430	430	430
MPP voltage MV	V	125 – 350	125 – 350	125 – 350
MPP voltage HV	V	250 – 500	250 – 500	250 – 500
Max DC voltage MV Indiv./Parallel	V	450/410	450/410	450/410
Max DC voltage HV Indiv./Parallel	V	600/550	600/550	600/550
Turn off voltage DC MV	V	100	100	100
Turn off voltage DC HV	V	200	200	200
AC voltage range	V	230 ±15 %	230 ±15 %	230 ±15 %
AC frequency range	Hz	50 ±5	50 ±5	50 ±5
Currents				
Max current DC MV	A	10	20	30
Max current DC HV	A	7	14	21
Nominal current AC	A	6.5	13	19
Max current AC	A	8	15.5	23
Distortion (THD%)	%	< 5	< 5	< 5
Other				
Dimensions (L x W x H)	mm	511 x 395 x 195.5	640 x 395 x 195.5	769 x 395 x 195.5
Weight	kg	16	23	27
Acoustic Noise level	dB (A)	55	55	55
Operation temperature range	°C	-25 ... +60	-25 ... +60	-25 ... +60
MPP efficiency	%	99.9	99.9	99.9
Overload operation		Change of operating point	Change of operating point	Change of operating point
Grid surveillance U/f		Window & impedance monitoring	Window & impedance monitoring	Window & impedance monitor.
Mounting recommendation		Wall bracket	Wall bracket	Wall bracket
IP		IP21 / IP54	IP21 / IP54	IP21 / IP54
Isolation monitoring		Included	Included	Included
Serial Communication		RS485	RS485	RS485
Options				
DC switch		DC switch	DC switch	DC switch
Master Slave Modus		Parallel string operation/ Autodetection	Parallel string operation/ Autodetection	Parallel string operation/ Autodetection
Directive LVD		73 / 23 / EC	73 / 23 / EC	73 / 23 / EC
Directive EMC		2004 / 108 / EC	2004 / 108 / EC	2004 / 108 / EC
Safety		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
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
Utility Interference		EN 61000-3-2. -3	EN 61000-3-2. -3	EN 61000-3-11. -12
Functional safety, Anti-islanding		DIN VDE 0126-1-1	DIN VDE 0126-1-1	DIN VDE 0126-1-1
CE		Yes	Yes	Yes
Utility characteristics		IEC 61727. EN 50160	IEC 61727. EN 50160	IEC 61727. EN 50160
Italy		DK5940	DK5940	DK5940
Spain		RD1663	RD1663	RD1663
Article numbers	MV	300101001650	300101003300	300101004600
	HV	300102001650	300102001650	300102001650

Subject to modifications that represent progress.

07-2008