INVERTER

IBC ServeMaster 10000 TL, 12500 TL, 15000 TL

PRODUCT ADVANTAGES:

- Three phase grid connection
- Up to three individual DC string input
- Transformerless
- 98 % Efficiency
- Ride Through technique
- High MPP tracker efficiency
  - 99,9 % static
  - 99,4 % dynamic
- Integrated DC switch
- Outdoor

TECHNICAL DATA

IBC ServeMaster		10000 TL	12500 TL	15000 TL
Specification				
Max. power DC	W	10300	12900	15500
Nominal power AC	W	10000	12500	15000
Max. power AC	W	10000	12500	15000
Max. efficiency	%	98	98	98
Euro efficiency	%	>97	>97	>97
Power factor		>0.97 at 20 % load	>0.97 at 20 % load	>0.97 at 20 % load
Turn on power	W	20	20	20
Turn off power	W	15	15	15
Standby consumption	W	10	10	10
Night consumption	W	<5	<5	<5
Voltages				
Nominal voltage DC	V	700	700	700
MPP voltage	V	430 – 800	430 – 800	430 – 800
Max. voltage DC	V	1000	1000	1000
Start voltage DC	V	250	250	250
AC voltage range	V	3 x 400 +15 % – 20 %	3 x 400 +15 % – 20 %	3 x 400 +15 % – 20 %
Grid frequency	Hz	50 ±5	50 ±5	50 ±5
Currents				
Max. current DC	A	2 x 12 (24)	3 x 10 (30)	3 x 12 (36)
Nominal current AC	A	15	19	22
Max. current AC	A	15	19	22
Other				
Distortion (THD %)	%	<4	<4	<4
Dimensions (L x W x H)	mm	700 x 525 x 250	700 x 525 x 250	700 x 525 x 250
Weight	kg	35	35	35
Acoustic noise level	dB (A)	56	56	56
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		Three phase monitoring	Three phase monitoring	Three phase monitoring
Mounting recommendation		Wall bracket	Wall bracket	Wall bracket
IP		IP 54	IP 54	IP 54
Isolation monitoring		Included	Included	Included
Seriel communication		RS 485	RS 485	RS 485
Potential free contact		x 2	x 2	x 2
Sensor input		x 2 (temperature, irradiation)	x 2 (temperature, irradiation)	x 2 (temperature, irradiation)
Energy meter		S0 input	S0 input	S0 input
Normative references				
Safety		EN 50178	EN 50178	EN 50178
EMC immunity		EN 61000-6-1 EN 61000-6-2	EN 61000-6-1 EN 61000-6-2	EN 61000-6-1 EN 61000-6-2
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 61000-3-11/-12	EN 61000-3-11/-12
Functional safety		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
Spain		RD661	RD661	RD661
Article numbers		300103010000	300103012500	300103015000

Subject to modifications that represent progress. 09-2008