

Datasheet Power Converter MSC Microgrid 250 kW to 2.0 MW



	MSC 250	MSC 500	MSC 750	MSC 1000	MSC 1500	MSC 2000
Rated output power (kW)	250	500	750	1000	1500	2000
Rated output current (A)	235	465	700	930	1395	1865
Rated output frequency (Hz)*	50	50	50	50	50	50
Number of DC-Inputs **	1	1	2	2	3	4
Weight (kg)	1800	2000	2200	2400	2800	3600
Number of cabinet units	1	1	1	1	1	2
Dimensions (WxDxH) in mm	W 3000	W 3000	W 3000	W 3600	W 4200	W 3600
	D 600	D 600	D 600	D 600	D 600	D 600
	H 2200	H 2200	H 2200	H 2200	H 2200	H 2200
Rated output voltage AC	620 V					
Range input voltage DC	200 ... 1200 V DC					
Power factor range	0.9 cap ... 0.9 ind					
Total harmonic distortion	< 3%					
Maximum efficiency	> 98%					
Principle	IGBT					
IGBT switching frequency (kHz)	2 ... 4 kHz					
Protection class	IP 54					
Temperature range	-20°C ... +50°C					
Cooling principle	liquid cooling					
Operating pressure cooling system	3 bar					
Main controller	Siemens Simotion P320-4					
Internal communication bus	Profinet					
External communication interfaces	Ethernet / TCP/IP					

* data sheet for 60 Hz on request

** project-specific DC-Inputs possible

Version 1.3 / 12-17

We reserve the right to modify technical specifications without prior notice.

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Datasheet Power Converter MSC Microgrid 20 kW to 300 kW



	MSC 20	MSC 40	MSC 60	MSC 80	MSC 100	MSC 200	MSC 300
Rated output power (kW)	20	40	60	80	100	200	300
Rated output current (A)	29	58	87	116	144	288	432
Rated output frequency (Hz)*	50	50	50	50	50	50	50
Number of DC-Inputs **	4	4	4	4	4	8	12
Weight (kg)	500	600	700	900	1000	2000	3000
Number of cabinet units	1	1	1	1	1	2	3
Dimensions (WxDxH) in mm	W1200	W1200	W1200	W1800	W1800	W3600	W5400
	D 600	D 600	D 600	D 600	D 600	D 600	D 600
	H 2300	H 2300	H 2300	H 2300	H 2300	H 2300	H 2300
Rated output voltage AC	400 V						
Range input voltage DC	200 ... 800 V DC						
Power factor range	0.9 cap ... 0.9 ind						
Total harmonic distortion	< 4%						
Maximum efficiency	> 97%						
Principle	IGBT						
IGBT switching frequency (kHz)	4 ... 6 kHz						
Protection class	IP 54						
Temperature range	-20°C ... +50°C						
Cooling principle	air cooling						
Main controller	Wago PFC200						
Operating system	Real-time Linux						
External communication interfaces	Ethernet / TCP/IP						

* data sheet for 60 Hz on request

Version 1.3 / 12-17

** project-specific DC-Inputs possible

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