

MASTERGUARD UPS

Series E.

6-20 kVA



Reliability with On-line technology for industry and IT&TC: This UPS is based on the latest technology and 35 years of eyperience - Siemens technology for three-phase and AC-devices, with all the advantages of modern electronics. The bypass-switch and the emergency-power-off-interface are safety features to guarantee in combination with the communication capabilities an excellent system integration. Highest security for high-end-applications and flexible use for big and small enterprises.



The Series E₁ is the allround-UPS of the MASTERGUARD-units with single-phase output. Perfect for relatively small computer centers and server farms as well as for telecommunications and processes in industrial automation.

With its three-phase or single-phase power input, modern double-conversion technology, multiple system integration capabilities and high power margins, the Series E₁ is the most efficient all-round protection against any kind of disturbance or problem in the main supply system.

Flexibly expandable, easy usage: The Series E, units can be expanded with battery packs as required. By integrating up to two external modules, even longer backup times are possible. The front panel with pictograms is easy to survey and the UPS will be controllable with half an eye. The MASTERGUARD monitoring- and shutdown-software makes the PC to a power control center. And with its unique mobility, the units can be put to use locally - anywhere at every time. they rest on rollers, are lightweight and have small dimensions, thus enabling them to be installed just about anywhere.

	MASTERGUARD Series E ı	E, 60	E ₁ 100	E ₁ 100-3	E i 200-3
	Principle of operation	Online double-conve	ersion system		
	Rated power ($\cos \varphi_{ind.} = 0.7$)	6.000 VA	10.000 VA	10.000 VA	20.000 VA
	Input				
	Rated voltage	230 V, 1-ph.		400 V, 3-ph.	
	Voltage range	176 – 276 V		304 - 478 V	
	Frequency	50/60 Hz ± 5%, auto	omatic frequency rec	ognition	
	Power factor	> 0,97	> 0,97	> 0,95	> 0,95
	Battery	Sealed lead-acid bat	tery, maintenance-fre	ee	
	Backup-time with integrated battery a	t nominal load			
		8 min	8 min	8 min	10 min
	Backup-time with one external battery	y pack at nominal pov	ver		
		46 min	31 min	31 min	52 min
	Output	single-phase			
	Voltage	220, 230 , 240 V (adju	ustable)		
	Static voltage tolerance	± 2%			
	Frequency	50 or 60 Hz (same a	s input frequency)		
	Frequency tolerance, normal oper.	Output synchronized	d with the supply free	quency	
	Frequency tolerance, power failure	± 0,5% (internal free	quency generator)		
	Resisitance to	125% of the rated load for 60 sec			
	short-circuits/overload rating	150% of the rated lo	oad for10 sec		
		Short circuit proof			
	Distortion coefficient for				
	linear load	< 3 %	< 3 %	< 3 %	< 5 %
	non-linear load	< 8%	< 8%	< 8 %	< 8 %
	Crest-factor	3			
	Automatic bypass	integrated			
	Safety				
	Electrical safety	EN 50091-1			
	RFI class	EN 50091-2			
	Test certificates	TÜV-GS seal			
	Permissible ambient temperature				
	during operation	+ 0 °C to + 40 °C			
	during storage	- 15 °C to + 40 °C			
	Relative humidity	20 to 90%, no cond	ensation		
	Noise level in dB (A)	55	55	55	60
	Interfaces				
	Data communication	COM: Sub-D 9-pole,	male (RS232, indica	tions) (Option: plug-in	card)
	Safety	EmergencyPowerOff-Interface (Interface contacts)			
	Mains power connection	Direct-wired connec	tions		
	Load connections	Direct wired	direct wired	direct wired	direct wired
		+ 2x IEC320 16 A ¹⁾	-	-	-
	Dimensions				
	Size (W x H x D in mm)	260 x 705 x 605	300 x 710 x 675	300 x 710 x 675	420 x 1180 x 800
	Weight	90 kg	110 kg	112 kg	325 kg
	Minimum fuse connection				
	of the mains supply	35 A	50 A	50 A	100 A
	Dimensions battery-packs				
	Size (B x H x T in mm)	260 x 705 x 605	300 x 710 x 675	300 x 710 x 675	420 x 1180 x 800
	Weight	130 kg	164 kg	164 kg	420 kg
	Accessories				
		- Communication-so	oftware		
	Battery-packs (BP), SNMP-adapterexternal manual bypass switchSurveillance service LIFE2000				
	1) with Schuko-outlet distributor (3-tim	nes)			

¹⁾ with Schuko-outlet distributor (3-times)