



EPOS mini DC Power Systems in 19" Racks

EPOS mini 48/60-300.4 RU

EPOS mini 48/60-300.8 RU



POWER
GENERATION &
DISTRIBUTION



PROCESS
INDUSTRY



DEFENCE &
SECURITY



TELECOM

Product Description

The EPOS Mini is a modular power supply system designed to supply uninterrupted DC power for demanding telecom and industrial applications, providing 300 W to 2400 W at 48 VDC or 60 VDC output.

Depending on selected configuration the system provides space for AC connection, up to four or eight rectifiers, system controller, battery and load distribution. All in one package.

Local system control and battery monitoring is accomplished through the system controller. An optional advanced control package enables remote operation of the system and intelligent battery management with user-friendly PC-based software package.

Features

- Convection cooled
- Available in 48V and 60V
- Max output 300 W to 2400 W
- Wall or 19" rack-mounted
- W: 19" std, H: 4U or 10U, D: 365 mm
- Compact design
- All-inclusive distribution with LVD and PLD options
- Rectifier: ERM 48/60-300
- Remote control (Ethernet and RS-232)
- Advanced battery management package
- SNMP v3 (GET, SET, TRAP)





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Technical Specifications

Description	EPOS Mini 48/60-300.4-RU	EPOS Mini 48/60-300.8-RU
Grounding	Positive ground	
Nominal Power	1200 W	2400 W
Output power characteristics	Constant power	
Nominal voltage	48 / 60	
Minimum voltage	42 / 53	
Maximum voltage	59 / 72	
Rectifiers	ERM48/60-300, Max 4 pcs	ERM48/60-300, Max 8 pcs
Nominal Input voltage	230 / 400 VAC	
Range (phase-neutral)	175- 290 VAC	
AC wiring	TN-S (3 phases, Neutral and PE)	
Input frequency	45 to 65 Hz	
Cooling	Natural convection	
Temperature range	-5°C ... +50°C, Extended: +50°C ... +70°C (derated output)	
Battery distribution	2 x MCB 63A w/ auxiliary switch for alarm	
Load distribution	Up to 6 x 1-pole MCB (1-63A)	Up to 17 x 1-pole MCB (1-63A)
Battery Low Voltage Disconnect	Option	
Controller	ESC MS-48.60 (Standard controller) ESC MA-48.60 (Advanced controller, option)	
Safety Approvals	IEC/EN 60950-1	
EMC	Product family standard: ETSI EN 300386 Harmonic currents : IEC/EN 61000-3-2 Voltage fluctuation & flicker: IEC/EN 61000-3-3	
RoHS	2002/95/EC	

Enclosure

Description	EPOS Mini 48/60-300.4-RU	EPOS Mini 48/60-300.8-RU
Dimensions (HxWxD)	19" (482mm) x 4U (178mm)x 290 mm	19" (482mm) x 10U (445mm)x 290 mm
Picture		
Installation	Wall or 19" Rack	
Cabling outlet	Through top or right side	
Options	Wall mount kit	



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Product Selection Guide

Each part no represents a complete pre-defined system configuration. The table details what equipment is included for each part no. Please note that rectifiers, accessories and protection devices for loads are not included, and needs to be ordered separately. For factory installed options, please contact your Efore sales representative.

Name	95MA004	95MA002	95MA003
Configuration	EPOS Mini 48/60-300.4-RU		EPOS Mini 48/60-300.8-RU
Enclosure	19" shelf, 4U high. Prepared for cabinet mounting		19" shelf, 10U high. Prepared for cabinet mounting
AC connection	4-pole mains MCB+PE		
Rectifiers	Space for 4 rectifiers. <i>Rectifiers not included</i>		Space for 8 rectifiers. <i>Rectifiers not included</i>
Controller	ESC MS-48.60	ESC MA-48.60	ESC MA-48.60
Battery conn	MCB: 1 x 63A, breakers included	MCB: 2 x 63A, breakers included	MCB: 2 x 63A, breakers included
Load conn.	Space for 6 x 1-pole MCB <i>No breakers included</i>	Space for 6 x 1-pole MCB <i>No breakers included</i>	Space for 17 x 1-pole MCB <i>No breakers included</i>
Accessories	Cables for battery block voltage measurement Wall mounting kit		
Circuit diagram			
Factory installed options	Temperature probe interface module + temp probe Battery LVD		

Order Information

Rectifiers

Description	Order number	Fits
ERM 48/60-300 (48 & 60 VDC, 300W)	92M018	EPOS Mini 48/60-300.4 EPOS Mini 48/60-300.8

Protection Devices - Battery

Description	Order number
MCB 63A w/ aux switch	94M257

Protection Devices - Load

Description	Order number	Description	Order number
MCB 10A, C-curve	52500109	MCB 32A, C-curve	52500113
MCB 16A, C-curve	52500110	MCB 40A, C-curve	52500276
MCB 20A, C-curve	52500111	MCB 50A, C-curve	52500220
MCB 25A, C-curve	52500112	MCB 63A, C-curve	52500114



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