



NetSure™ 211 Ordering Guide

-48V DC Power System
582136600 (10 A to 120 A)



NetSure™ 211 Ordering Guide

Description

The NetSure™ 211 Series of compact -48V DC power systems combines reliable rectifiers with an advanced Ethernet-accessible controller. Engineered for mini power applications, the system features centralized control, flexible distribution and high power density for a range of DC applications.

The 2 RU model featured in this ordering guide allows for up to four 1000 watt 48V rectifiers for a total of 4 kW of power conversion in a 19" wide configuration and up to six 1000 watt 48V rectifiers for a total of 6 kW in a 23" wide model. Dual AC feeds are available for 120 VAC or 208/240 VAC inputs

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Requester Contact Information:

Name*

Company*

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NetSure™ 211 with NCU Controller, 19" Shelf, 2 RU



NetSure™ 211 with NCU Controller, 23" Shelf, 2 RU

Table A. Calculate the Number of Batteries and Rectifiers Needed

Enter the name, quantity and power consumption of each piece of power equipment. The chart below will calculate the total power consumption for each type of equipment entered as well as the number of battery strings and rectifiers needed for the system.

NOTE: 582136600ZZ053 has landing provision for (2) battery strings. 582136600ZZ054 has a landing position for (1) battery string from the factory. 582136600ZZ055 has landing positions for (2) battery strings.



Equipment Name	Qty.	Power Consump. Each (Watts)	Power Consump. Total (Watts)	
				Total 48 VDC Load in Watts:
				Battery Strings Required:
				48VDC, # of 26A-Hr SBS J30 Strings for 4 Hour Backup
				48VDC, # of 26A-Hr SBS J30 Strings for 8 Hour Backup
				48VDC, # of 38A-Hr SBS B10 Strings for 4 Hour Backup
				48VDC, # of 38A-Hr SBS B10 Strings for 8 Hour Backup
				48VDC, # of 62A-Hr SBS B14F Strings for 4 Hour Backup
				48VDC, # of 62A-Hr SBS B14F Strings for 8 Hour Backup
				48VDC, # of 100A-Hr SBS 100F Strings for 4 Hour Backup
				48VDC, # of 100A-Hr SBS 100F Strings for 8 Hour Backup
				NetSure™ 211 Indoor System Rectifiers:
				# of 500 watt rectifiers needed at 120 VAC or 240VAC input
				# of 1000 watt rectifiers needed at 120 VAC input
				# of 1000 watt rectifiers needed at 240 VAC input

NOTE 1: Rectifier quantity includes one redundant unit for each.

NOTE 2: Power levels used for calculation are based on minimum available current per unit at minimum operating voltage 42 VDC at ambient of 45°C.

NOTE 3: Battery parameters used in this chart are from Enersys. Other vendor batteries may have different parameters.

Table B. Select a System Width Based on the Number of Rectifiers Required

System	Shelf Size	Number of Rectifiers	Distribution	
NetSure™ 211 – 2 RU, Up to 60 A (N+1)	19" x 2 RU	Up to 4 rectifiers	Up to 4 load breakers or Up to 17 GMT fuses	
NetSure™ 211 – 2 RU, Up to 100 A (N+1)	23" x 2 RU	Up to 6 rectifiers	Up to 4 load breakers or Up to 17 GMT fuses	

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NetSure™ 211 with NCU Controller, 19" Shelf, 2 RU



NetSure™ 211 with NCU Controller, 23" Shelf, 2 RU

Table C. Configure the NetSure™ 211

Catalog Number	Part Number	Quantity	Description	Shelf Size
Step 2a: Choose Rectifier Shelf (includes space for distribution)				
	58213660005		NetSure 211 power system shelf	19" x 2 RU
	58213660006		NetSure 211 power system shelf	23" x 2 RU
Step 2b: Select Distribution, 1 required per rectifier shelf				
	582136600NA	(2)	Load breaker positions, (2) battery breaker positions and (5) GMT fuse positions (10 A max), no LVD	
	582136600BA	(2)	Load breaker positions, (2) battery breaker positions and (5) GMT fuse positions (10 A max), battery LVD	
	582136600NC	(4)	Load breaker positions and (5) GMT fuse positions (10 A max), no LVD	
	582136600BC	(4)	Load breaker positions and (5) GMT fuse positions (10 A max), battery LVD	
	582136600NF	(8)	10 A GMT fuse positions and (5) 15 A GMT fuse positions, no LVD	
	582136600BF	(8)	10 A GMT fuse positions and (5) 15 A GMT fuse positions, battery LVD	
Step 2c: Select GMT Fuse Module if Required				
	545332DCP	(6)	position GMT fuse position option board, takes up (2) load breaker positions	
NOTE: Up to (1) for Lists NA and BA. Up to (2) for Lists NC, BC. Cannot be used in Lists NF and BF.				
Step 2d: Select Line Cord, 2 required per shelf				
	545478DCP*	14'	AC cord, 120 VAC, 5-15P fits wall outlet	
	545252DCP	14'	AC cord, 120 VAC twist-lock L5-30P	
	540946	14'	AC cord, 208/240 VAC twist-lock L6-30P	
* This cord is for use with 1R48500 rectifiers and the 19" shelf only.				
Step 2e: Choose a Controller				
	1M830BNA559470		NCU Controller e/f LVD for List BA, BC and BF	
	1M830BNA559471		NCU Controller no LVD for List NA, NC, and NF	
Step 2f: Select up to 2 Temperature Probes if Required (one battery and one ambient or two battery)				
	556155	3	meter temperature probe	
	58213660091	10	meter temperature probe	
Step 2g: Select Rectifier Quantity (Up to 4 rectifiers per 19" shelf or up to 6 rectifiers per 23" shelf)				
	1R48500	500	watt (10 amp) rectifier	
	1R481000	1000	watt (20 amp) rectifier	
NOTE: 1000 watt rectifier derates to 670 watts with 120 volt AC input at up to 45°C.				

Catalog Number	Part Number	Qty.	Description
Step 2i: Select Breakers if Required *			
	101599		10 A breaker
	101600		15 A breaker
	101601		20 A breaker
	101602		25 A breaker
	101603		30 A breaker
	101604		35 A breaker
	101605		40 A breaker
	121997		45 A breaker
	101606		50 A breaker
	101607		60 A breaker
	101608		70 A breaker
	101609		75 A breaker
	121995		80 A breaker
	101610		100 A breaker
Step 2j: Select Fuses if Required			
	248610301		0.18 A fuse
	248610200		0.25 A fuse
	248610300		0.5 A fuse
	248610500		0.75 A fuse
	248610700		1.33 A fuse
	248610800		2 A fuse
	248610900		3 A fuse
	248611000		5 A fuse
	248611300		7.5 A fuse
	248611200		10 A fuse
	248611500		15 A fuse, max load of 70% or 10.5 A

Catalog Number	Part Number	Qty.	Description
Step 2k: Select Battery Cables if Required			
	58213660065		2 AWG battery cable, shelf side
	58213660066		2 AWG battery cable, battery side
	58213660067		8 AWG battery cable, shelf side (connects to shelf and 554631 battery cabinet)
Step 2l: Select Battery Cabinet if Required			
	545534		Indoor wall or rack-mounted battery cabinet, holds (4) 40 Amp-hour batteries
Step 2m: Select Battery Tray if Required			
	582136700SK001		19" battery tray that accepts front terminal batteries. Kit includes tray, battery disconnect box, 100 A disconnect
	582136700SK002		23" battery tray that accepts front terminal batteries. Kit includes tray, battery disconnect box, 100 A disconnect
Step 2n: Select Wall Mounting Kit if Required			
	553203		Wall mount kit (allows power system shelf to mount flat to wall)
	552537		19" wall mount kit, provides 6 RU of mounting space, equipment mounts horizontally in rack
	552535		23" wall mount kit, provides 6 RU of mounting space, equipment mounts horizontally in rack

* See System Application Guide for any spacing requirements

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