

samlexamerica®

Advanced N+1 DC Power System

Models:
SEC-12HCP
SEC-24HCP
SEC-48HCP

SYSTEM Features (SEC-HCP)

- N+1 redundant load sharing to maintain continuous operation.
- Scalable modular architecture allowing to connect up to 2 units in parallel.
- Front-access slide-in module design for fast installation and service.
- Replace or add modules without shutting down the system to minimize downtime.
- Compact 1U, 19" rack-mount design for clean infrastructure integration.
- Integrated SNMP monitoring, web interface, email alerts, and Form C dry contact alarms.
- Integrated 2-stage battery charger operates independently of the power modules, maintaining full system output capacity (12V and 24V models only).
- Comprehensive protection system.

2 YEAR LIMITED WARRANTY

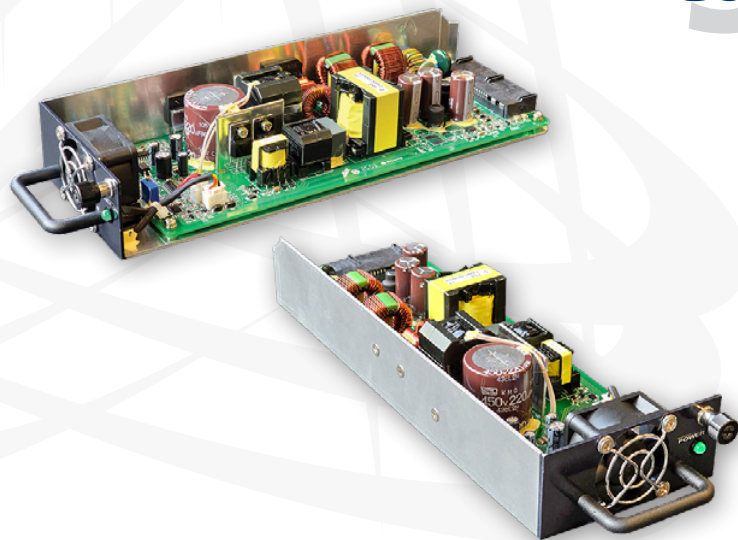


N+1 Power Supply Models	SEC-12HCP	SEC-24HCP	SEC-48HCP
AC INPUT			
Voltage, Frequency, Max Current	100 - 240 VAC, 50-60 Hz, 16.3 A		
Power cord	300 VAC, 20 A, NEMA 6-20P, 12 AWG, 6 ft		
Efficiency @ 120 VAC (240 VAC)	> 88% (> 90%)		
Input Power Factor @ 120 VAC (240 VAC)	> 0.98 (> 0.96)		
DC OUTPUT			
Maximum current capacity (LOAD+ to GND-)	100 A	50 A	25 A
Connections	M8 (5/16-inch) bolt hole for ring-type DC terminals		
2-STAGE EMBEDDED BATTERY CHARGER (BATT+ TO GND-)			
DC output voltage	13.8 V ± 0.1 VDC	27.6 V ± 0.2 VDC	Not Applicable
Max DC charging current*	8 A ± 0.5 A	4 A ± 0.5 A	Not Applicable
Efficiency	> 96%	> 96%	Not Applicable
PROTECTIONS			
Reverse polarity	Internal 20 A /32 VDC Fuse	Internal 10 A /32 VDC Fuse	Not Applicable
Under and Overvoltage Alarms (programmable)	9 V to 16.2 V ± 0.3 VDC	18 V to 32.4 V ± 0.3 VDC	Not Applicable
Overcurrent AC breaker protection	20 A Push button AC breaker		
DISPLAY			
LCD	Alphanumeric: 2 lines x 12 characters each		
CONTROL AND MONITORING			
Local			
Mode and parameter setup	Through menus displayed on the LCD screen and via USB port.		
Monitoring operating status	Through LCD screen		
Remote			
Parameter setup and monitoring via USB	COM serial Type B -USB port (this feature uses ASCII coded commands).		
Dry contact and Sync-Line terminal	Relay (CN1): AC not OK (AC < 83.5 ± 1.5 VAC)		
	Relay (CN2): Fan fault alert, Internal temp alert, Module DC not OK, overload, overtemperature and short circuit.		
	Sync-Line terminal: Signal for connecting 2 units in parallel.		
Monitoring using Ethernet / SNMP	Through computer's Web Browser and Ethernet connection.		
E-mail alerts	Customizable (Fan fault, DC failure, AC failure, Over-temperature)		
SNMP Trap	Supports SNMP v1 and v2c		
SAFETY AND EMI/EMC COMPLIANCE			
Safety	Intertek - ETL Listed. Conforms to UL Std. 62368-1 and certified to CSA Std. C22.2 No. 62368-1		
EMI/EMC	FCC Part 15(B), Class B, CE Directive 2014/30/EU		
ENVIRONMENT			
Operating Temperature Range	-20 to 50 °C (-4 °F to 122 °F)		
Relative Humidity	Up to 90%, non condensing		
Storage Temperature	-30 to +70 °C (-22 to +158 °F)		
MECHANICAL			
Corresponding SEC-HSM Module Model	SEC-12HSM	SEC-24HSM	SEC-48HSM
Dimensions with DC caps on (19" Rack Mount, 1U height)	437 x 405.38 x 44.1 mm (17.20 x 15.96 x 1.74 in)		
Weight, KG / LBS	4 Kg / 8.81 lb		

NOTE: Specifications are subject to change without notice. The SEC-HCP System is not designed for standalone operation and must have at least 1 SEC-HSM module installed into the chassis for power and operational functionality. Modules are sold separately.

* The system can deliver current above its maximum (~10%) when no battery is connected to the system.

12001-SEC-12-24-48HCP-HSM-0626



Advanced N+1 DC Power System

Models:
SEC-12HSM
SEC-24HSM
SEC-48HSM

Hot-Swappable Power Modules (HSM)

- Independent and thermally-controlled smart cooling fan.
- Status LED indicator for quick diagnostics.

2 YEAR LIMITED WARRANTY

N+1 Power Supply Models	SEC-12HSM	SEC-24HSM	SEC-48HSM
AC INPUT			
Input voltage range and frequency	100 - 240 VAC, 50-60 Hz		
Input Current @ 120 VAC (240 VAC)	3.5 A (1.45 A)		
Efficiency	> 88% (> 90%)		
Input Power Factor @ 120 VAC (240 VAC)	> 0.98 (> 0.96)		
DC OUTPUT			
Preset Output Voltage	14.2 ± 0.1 VDC	28.4 VDC ± 0.2 VDC	56.8 VDC ± 0.4 VDC
Adjustable Voltage Range, Cutoff	13.8 V to 14.6 V ± 0.1 VDC , 17.2 ± 0.5 VDC	27.6 V to 29.2 V ± 0.2 VDC, 34.4 ± 1 VDC	55.2 V to 58.4 V ± 0.4 VDC, 68.8 V ± 2 VDC
Continuous output current *	25 A	12.5 A	6.25 A
Voltage ripple (peak to peak)	< 140 mV	< 280 mV	< 360 mV
Power	350 W		
PROTECTIONS			
Cooling	Forced air, 1 independent temperature-controlled fan		
Overtemperature	Battery takes over at 85° ± 5 °C (185° ± 41° F). Shut down at 105° ± 5° C (221° ± 41° F). The unit will auto reset when is approx 10° C (50° F) cooler.		
AC Fuse	5 A/250 V time delay, 5 mm x 20 mm		
Overvoltage	16.2 V ± 0.3 VDC	32.4 V ± 0.3 VDC	68.8 V ± 0.2 VDC
Overload and Short Circuit Protection (Auto reset when fault is removed)	Hiccup mode 30 A ± 2 A	Hiccup mode 15 A ± 2 A	Hiccup mode 7.5 A ± 1 A
ENVIRONMENT			
Operating Temperature Range	-20 to 50 °C (-4 °F to 122 °F)		
Relative Humidity	Up to 90%, non condensing		
Storage Temperature	-30 to +70 °C (-22 to +158 °F)		
MECHANICAL			
Monitoring	Status LED		
Corresponding SEC-HCP System	SEC-12HCP	SEC-24HCP	SEC-48HCP
Installation to the SEC-HCP chassis	Retaining Thumbscrew		
Dimensions	275 x 88 x 40 mm (10.83 x 3.46 x 1.57 in)		
Weight, KG / LBS	0.6 Kg / 1.32 lb		

NOTE: Specifications are subject to change without notice

* Modules are not designed for standalone operation and must be housed in an SEC-HCP chassis for power and operational functionality.

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