



Intelligent Controller

- 1U or 2U rack mounting
- RS485 or Ethernet Interface for PC connection locally or remotely
- Multiple User-selectable languages
- Advanced battery management, both lead-acid and Lithium-battery
- Up to 86 digital outputs can be supported
- Up to 46 digital inputs can be supported
- Authority management and operator access levels protection

Hel-SC501 Intelligent Controller

The advanced HEL-SC501 controller is a powerful and cost-effective module, developed for monitoring and controlling a wide range of DC Power Supply systems. It can control and monitor the overall shelf system, batteries and DC Power Modules.

User can operate the system via the four front keys and LCD display. Also it can be monitored and controlled via Ethernet (SNMP).

It provides advanced battery management functions such as LLVD, BLVD, temperature compensation, auto voltage regulation, current limitation, run time remaining, battery discharge test, energy saving, etc.

MAIN FEATURES

- 1U height
- RS485 or Ethernet Interface for PC connection locally or remotely
- Front panel LCD with four buttons for on-site using without pc
- Easy configurable file upload/download via USB or PC
- Easily update software via controller, USB or PC
- Advanced battery management, both lead-acid and Lithium-battery
- Up to 86 digital outputs can be supported
- Up to 46 digital inputs can be supported
- Multiple LVDs control
- Battery mid-point monitoring
- Authority management and operator access levels protection
- Event log (up to 90000 records, totally)
- Alarm log (up to 10000 records)
- Multiple User-selectable languages

APPLICATIONS

- Fibre optic network
- Radio Access Network
- Wireless Networks
- Transmission Equipment
- Micro Base Station
- 4G & 5G base stations

RELATED PRODUCTS

HELSESN1540180R48



HELSESN1360180R48



General	
Power Supply	18-75Vdc
Operating Temperature	-40° C to +70° C
Storage Temperature	-40° C to +85° C
Operating Humidity	Operating: ≤95% non-condensing
Storage Humidity	Storage: ≤99% non-condensing
Dimensions	41.5H x 86.5W x 182.5D (mm) for 1U or 2U Racks
Weight	420gr
Cooling	Convection
MTBF	300, 000h(T ambient : 25° C)
Languages	Multi language (English as default)

Standards Compliance		
Safety	IEC 60950-1, EN 60950-1, UL 60950-1	
EMC	Conducted Emission	EN55022 Class B
	Radiated Emission	EN55022 Class B
	Immunity to ESD	IEC61000-4-2 Level 3
	Immunity to radiated magnetic field	IEC61000-4-3
	Immunity to EFT	IEC61000-4-4 Level 3
	Immunity to surge	IEC61000-4-5 Level 3
	Immunity to conduction disturbance	IEC61000-4-6 Level 3
Others	CE, TUV, UL	
	ETSI EN 300 019-2(-1,-2,-3)	
	ETSI EN 300 132-2	

Communications Interfaces	
Physical	4*RS485 1*Ethernet 2*CAN 1*USB
Protocols	Modbus IPV4 SNMP V1/V2c
Others	3 LEDs 4 buttons 2.4#LCD

Specification	
Analog Inputs	1 bus voltage 1 load current 2 battery voltages 2 battery currents 2 load fuse alarms 2 battery mid-points 2 temperatures
Digital Inputs	6
Digital Outputs	6
LVDs	2
Note:	Additional boards can be added to increase number of signals. Ask our engineers for further information