

800 watt
total power

24/48 volt
24/48 output

24 PoE
devices

CMD remote
management

1 ms short circuit
protection



Active Power Supply Unit

24 Ports Power Supply, 48V or 24V, with Active Protections

High Power

The Active Power Supply Unit can handle up to 800 Watt in 48 and 24 Volt output power configurations.

Redundancy and Load Balancing

Each couple of output power group is powered by a couple of 200 Watt AC/DC converter and/or a couple of 200 Watt DC/DC converter (solar panel). The output power group can share up to 200 Watt in Redundancy mode or 400 Watt in Load Balancing mode.

Load indicator

The power group load indicator led shows the load level (green: 50%, yellow: 75%, red: 100%).

Reset button

Press the reset button to force a power cycle, power and unpower an output power group.

Active Protection

The microprocessor controls each life parameters of the Power Supply Unit and protects against overvoltage, overload and short circuit. In alarm mode the output power group is disabled for 10 seconds and enabled again automatically.

Remote Control

Connect the Power Supply Unit to the Controller Unit in order remote state parameters, switch on and off the output power groups and monitor load and alarm state via web or SNMP.

Electrical Specifications

| | |
|------------------------------|--|
| Output Voltage | 57 or 24 Volts DC |
| Max Output Current | 16.8 A @ 57V Load Sharing / 33.6A @ 24V Load Sharing |
| Efficiency | 85 % |
| Input Voltage Range ACDC | 85 ~ 264 VAC (47 ~ 63Hz) or 120 ~ 373VDC (Withstand 300VAC Surge for 5 seconds) |
| Input Voltage Range DCDC | 18 ~ 36 VDC |
| Ripple & Noise | 200 mV @ 57V / 120 mV @ 24V |
| Connector Max Output Current | 2 A |
| Output Group Max Current | 16.8 A |
| AC Power Entry | C14 with Fuseholder |
| Withstand Voltage | Input - Output : 3.0kVAC (20mA) Input - FG : 1.5kVAC (20mA) Output - FG : 500VAC (100mA) for 1min. |
| Isolation Resistance | More than 100MΩ (500VDC) at 25°C and 70%RH |

Protection Specifications

| | |
|-----------------------------|---|
| Active Protection | Short Circuit Protection (1ms reaction time) |
| Over Temperature Protection | YES |
| Over Voltage | 62V @ 57V / 29V @ 24V |
| Under Voltage | 43V @ 57 |
| Over Load | 15 A @ 57V Load Sharing / 30A @ 24V Load Sharing 7.5 A @ 57V Redundancy / 15A @ 24V Redundancy |

Environmental

| | |
|-----------------------|------------------------|
| Operating Temperature | -40°C to +80°C |
| Humidity | 0 - 95% non condensing |
| Cooling | Forced Air (Exhale) |

Mechanical Specifications

| | |
|------------------------|-----------------------------|
| Dimensions (LxWxD) | 482.6 x 4.5 (1U) x 300 mm |
| Weight | 4 Kg |
| Enclosure Material | Varnished Iron |
| Output Power Connector | 2 connector Micro-Fit (3.0) |
| Reset Button | 4 |

Led Indicators

| | |
|-----------------------------|---|
| Status | RGB Led multi message |
| Power Supply Load Indicator | green up to 50%, yellow up to 75%, red up to 100%, red blinking on Alarm (power off) |
| Power Group Load Indicator | green up to 50%, yellow up to 75%, red up to 100%, red blinking on Alarm (short circuit) |

Led Indicators

| | |
|----------------|---|
| EMC | EN55022 Class B, EN61000-4 |
| Rohs Compliant | Yes |
| Warranty | Standard: 2 years from date of purchase |

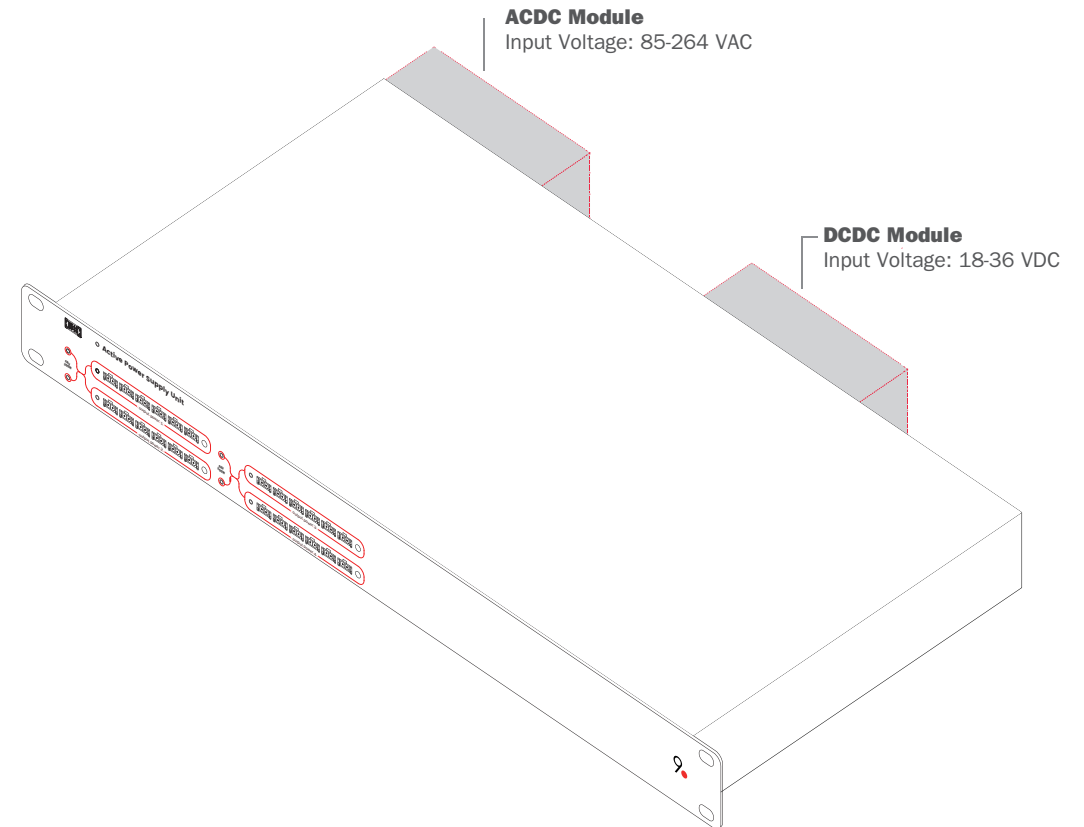
TERMS OF USE: This device must be professionally installed. Shielded ethernet cable and earth grounding must be used as conditions of product warranty. All specifications in this document are subject to change without notice.

For further information please visit www.9dot.it.

Active Power Supply Unit

Modular Input Voltage

Connect ACDC Modules, DCDC Modules or mix together to power the Active Power Supply Unit from different input power sources.



smart solutions for
new energy systems