

# ComCompact 2400-48 AC/DC

ComCompact power supply and battery charger,  
99-276 VAC / 48 VDC, 40 A

## Battery Chargers



Input: 120/230 VAC, 50/60/400 Hz

Output: 20-65 VDC, 40 A, 2400 W

Part number: P600610

### ComCompact Family Summary

- PFC
- RS-485 bus
- Active load sharing
- Battery temperature compensated charging
- Stand alone or mounted in 19" rack
- Alarm relay outputs
- RoHS compliant
- IP67



### Description

The input current of ComCompact is power factor corrected and designed for optimum utilisation of weak power sources such as portable generators. The efficiency is very high due to soft switching technology. ComCompact can operate stand alone or be mounted in 19" rack system.

The RS-485 bus can be used for control, monitoring and setup. Detailed status and statistics can be retrieved. The bus is also used for interconnecting multiple units in a redundant or parallel system. The signal connectors provide several signals in addition to the RS-485 bus: alarm relay outputs and input for battery temperature sensor. Temperature compensated charging ensures full battery capacity over the entire temperature range. ComCompact can be configured to charge different battery technologies such as Li-Ion, LiPo, lithium iron phosphate and lead-acid. ComCompact can be software configured according to customer specification. The firmware is user upgradeable for future battery technologies and facilities. ComCompact is protected from overvoltage, overcurrent, short circuit, reversed polarity and over temperature.

### Functions

<b>Over Temperature</b>	The unit is protected from over temperature by derating the output current. It shuts down if the temperature continues to rise. The unit automatically starts up again when the temperature drops.
<b>Input Circuit Breaker</b>	The input circuit breaker is for failure protection and is also used as ON/OFF switch.
<b>Alarms</b>	Status signals are fed to separate potential free outputs, and are indicated in separate LEDs.
<b>Display</b>	The display can be toggled between output voltage, output current and alarm/error codes.
<b>Input Voltage</b>	When the input voltage is below the safe operating range, the converter is shut off. When the voltage returns, the converter is turned on again.
<b>Connectors</b>	AC input: 97B-3102E-16-10P-PCC-622 Amphenol or similar DC output: 97B-3102E-22-22S-622 Amphenol or similar Alarm 1: Binder 09-0404-30-02 Alarm 2: Binder 09-0412-30-04 NTC/COM: 2 pieces. Binder 09-0416-30-05
<b>Grounding</b>	Available in the front
<b>Acoustic Noise</b>	At ambient temperature below 45°C the acoustic noise is 45 dBA.
<b>Frequency</b>	45-430 Hz
<b>Cooling</b>	Forced air by temperature controlled fan

## Electrical Specifications

<b>Input Voltage</b>	99-276 VAC	
<b>Power Factor</b> -Load: ≥ 50 %, Vin: 50/60 Hz	Typical: 0.99	
<b>Input Current</b>	Vin: 99 VAC	≤ 29 A
<b>-Load: 2400 W</b>	Vin: 120VAC	≤ 23 A
<b>-Vin: 50/60 Hz</b>	Vin: 230 VAC	≤ 12 A
<b>Total Harmonic Distortion</b> -Load: 2400 W, Vin: 50/60 Hz	≤ 6%	
<b>Efficiency</b>	Vin: 120 VAC	≥ 88%
<b>-Load: 56 VDC, 40 A</b>	Vin: 230 VAC	≥ 90%
<b>Default Output Voltage</b>	48.0 VDC	
<b>Adjustable Output Voltage</b>	20-65 VDC	
<b>Default Output Current Limit</b>	42 A	
<b>Adjustable Current Limit</b>	3-42 A	
<b>Short Circuit Current</b>	≤ setting of current limiter +1 A	
<b>Load Sharing</b>	≤ 2 A deviation	
<b>Output Voltage Ripple and Noise</b> -Bandwidth: 20MHz	≤ 300 mVp-p	
<b>Load Regulation</b>	Typical: 50 mV	
<b>Line Regulation</b>	Negligible	
<b>Safety</b>	CE marked	

## Environmental Specifications

<b>High Temperature</b>
<u>Operational</u> MIL-STD-810G: Method 501.5, Procedure II, + 60°C
<u>Storage</u> MIL-STD-810G: Method 501.5, Procedure I, + 71°C
<b>Low Temperature</b>
<u>Operational</u> MIL-STD-810G: Method 502.5, Procedure II, - 40°C
<u>Storage</u> MIL-STD-810G: Method 502.5, Procedure I, - 51°C
<b>Temperature Shock</b>
MIL-STD-810G: Method 503.5, - 51 to + 71°C, non-operational
<b>Humidity</b>
MIL-STD-810G: Method 507.5, Procedure II, operational
<b>Vibration</b>
MIL-STD-810G: Method 514.6C Table 514.6C-VI. Composite wheeled vehicle vibration exposures figure 514.6C-3 MIL-STD-810G: Method 514.6D, Category 20, Ground Vehicles, Wheeled/Tracked/Trailer, Procedure I
<b>Shock</b>
MIL-STD-810G: Method 516.6, Procedure I, functional Shock, 40 g, 11 ms
<b>Fungus</b>
MIL-HDBK-454: Analysis of the degree of inertness to fungus growth of the components
<b>Salt Fog</b>
MIL-STD-810G: Method 509.5, 24 h spray, 24 h dry, 2 times
<b>Altitude</b>
<u>Operational</u> MIL-STD-810G: Method 500.5, Procedure II, 4750 m at 57.2 kPa
<u>Storage</u> MIL-STD-810G: Method 500.5, Procedure I, 12195 m at 18.8 kPa
<b>Encapsulation</b>
The power supply is designed to meet the requirements of IP67 and has been tested by immersion in 1 m water for 30 minutes.

## Standards

<b>Electromagnetic Interference</b>
The power supply is designed to meet MIL-STD-461E and F: CE101, CE102, RE101, RE102, RS103, CS101, CS114, CS115 and CS116.
<b>Electrostatic Discharge</b>
The power supply is designed to meet the requirements of EN 61000-4-2 for ESD.

## Weight and Dimensions

<b>Width</b>	220 mm
<b>Depth in Rack</b>	390 mm
<b>Depth Total</b>	420 mm
<b>Height</b>	88 mm, (2U)
<b>Weight</b>	11.1 kg

November 2019

All specifications are subject to change without notice  
The information contained herein is for reference only and does not constitute a warranty of performance

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