# Flatpack D Small Power System

## DC Power supply system 200A



## Power Beyond Limits, Unrivalled Reliability

The power system provides power density of 12kW within 1U 19" power shelf. The combination with 1U distribution design, power density and reliability makes the Flatpack D Small a product family that stands out and provides unparalleled network availability and power output.

The 1U distribution is designed to meet the demand for compact and flexible DC power solutions. Its highly configurable design is based on building blocks and offers a variety of configurations. The front connection battery and load breakers ensures easy configurability as well as "in field" replacement.

Elevate efficiency with our complete system featuring the Orion E or Smartpack S controller, ultra high efficiency rectifiers, and hot-pluggable modules. This compact powerhouse ensures reliable and flexible power solutions, delivering advanced control for streamlined operations.

## Main features

- Compact size (2U high)
- Up to 4x battery breakers (plug-in type)
- LVBD & PLD (optional)
- Up to 10x load breakers (plug-in type)
- CE approvals

## Applications

- Telecom – Mobile / Wireless
  - Radio base stations / cell sites
  - LTE / 4G / WiMAX
  - 5G
- Telecom – Fixed
  - Telephony servers/switches
  - Fiber optics / FTTx
  - Microwave
  - Cable
  - Broadband

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| Model | Flatpack D Small 12kW |
|---|---|
| Part number (Configured power system) | CTOF6A04xx.1xxx |

| Power Module | |
|---|---|
| Flatpack D rectifier [1] | Flatpack D 48/3000 SHE+ 98% |

| Input Data | |
|---|---|
| Voltage (range) | 80-300 $V_{AC}$ |
| Mains Frequency | 50 / 60 Hz |
| Mains configuration | Single input: 1x 3p400 $V_{AC}$ TN / 1x 3p230 $V_{AC}$ IT / 3x 1p230$V_{AC}$ TN |

| Output Data | |
|---|---|
| Voltage | -48 $V_{DC}$ |
| Load Current (maximum) | 200 A |
| Output Power (maximum) | 12kW |

| Battery Distribution | |
|---|---|
| Number of breaker positions | Up to 4x 30 mm |
| LVBD | 250 A (default) |
| Battery breaker type | 80 – 125 A (30 mm) - Front connection, plug-in type |

| Load Distribution | |
|---|---|
| Number of breaker positions | Up to 10x 20 mm or 4x 30 mm + 4x 20 mm |
| PLD | 150 A (optional) |
| Load breaker type | 80 – 125 A (30 mm) and 6 - 63 A (20 mm) - Front connection, plug-in type |

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| Control and Monitoring | |
|---|---|
| Control and Monitoring unit [2] | ORION E or Smartpack S |
| Local operation | Self-explanatory menu guided operation via touch-pad and graphical colour display |
| Remote operation | Ethernet for remote/local monitoring and control via WEB Browser |

| Other Specifications | |
|---|---|
| Operating temperature | -40 to +55 °C [-40 to +131 °F] |
| Storage temperature | -40 to +85 °C [-40 to +185 °F] |
| Relative humidity | 95 %, non-condensing |
| Dimensions (W x D x H) | 483 x 391 x 89 mm [19 x 15.4 x 3.5 inch] (Without front cable support) |
| Weight (excluding modules) | Approximately 10 kg [22 lbs] |

| Design Standards | |
|---|---|
| Electrical safety | IEC/EN 62368-1:2020/AC:2020/A11:2020 |
| EMC | EN 300 386 V2.2.1:2020 |
| Environment | ETSI EN 300 019-2-1 (Class 1.2) /-2 (Class 2.3) /-3 (Class 3.2)<br>Normal operating conditions as per IEC 62040-5-3:2016 clause 4.2.<br>Other operating conditions as per IEC 62040-5-3:2016 clause 4.3, must be advised |

1) See Flatpack D 48/3000 SHE+ rectifier datasheet for details
2) See ORION E or Smartpack S controller datasheet for details

Specifications are subject to change without notice