

## Product Overview

The full brick converter series with SynQor<sup>(1)</sup> packaging provide extremely high efficiency by using synchronous rectification. The series is composed of board-mountable, isolated, fixed switching frequency dc-dc converter. Each module is supplied completely encased to provide protection from the harsh environments seen in many industrial, military and aerospace applications.

- Compatible with SynQor<sup>(1)</sup> packaging
- Efficiency: up 94%
- Fixed switching frequency provides predictable EMI
- Parallelable
- Remote on/off
- Programmable output: 75~110%
- Input UVP/OVP
- Output OVP



## Specifications

\* Ta=25°C, rated input voltage & full load unless otherwise specified.

| Parameter         | Specification | Notes                 |
|-------------------|---------------|-----------------------|
| Voltage Accuracy  | ± 1% Vout     |                       |
| Line regulation   | ± 0.2% Vout   | Low line to high line |
| Load regulation   | ± 0.2% Vout   | No load to full load  |
| Temp regulation   | 0.02% Vout/°C | -55-100°C             |
| Output OVP        | 115% Vout     |                       |
| Efficiency        | Up to 94%     |                       |
| Programming range | 75~110% Vout  |                       |
| Isolation voltage | 3,000 Vrms    | Input to output       |
| Size              | 119×62.9×13mm | 1000W                 |

| Part Numbering       | Input voltage |          | Output voltage | Output power | Output current |
|----------------------|---------------|----------|----------------|--------------|----------------|
|                      | Rated         | Range    |                |              |                |
| <b>MVHDC1000-280</b> | 540V          | 380~650V | 28V            | 1000W        | 35.7A          |
| <b>MVHDC1000-360</b> | 540V          | 380~650V | 36V            | 1000W        | 27.8A          |
| <b>MVHDC1000-480</b> | 540V          | 380~650V | 48V            | 1000W        | 20.8A          |

(1) All shown name/names or trademarks belong to respective owner/owners