

ISSUE: [July 2020](#)

6U VITA-62-Compliant Power Supply For MIL-COTS VPX Applications

Developed using [Vicor's](#) high-density and high-efficiency ChiP power modules, the VITA 62-compliant power supply is designed for 6U OpenVPX conduction-cooled chassis systems. Operating from a nominal 28-V input, the VIT028x6U1000y000 power supply produces predefined output voltages ranging from 3.3 V to 12 V at output power levels up to 1000 W.

The table below lists the key input and output electrical specs for the 6U unit as well as the related 3U products. Customers requiring different output voltages or power levels can request a customized power supply to meet their own specifications.

The 6U supply fully meets MIL-461F, MIL-704F, and MIL-1275E standards. See the [data sheet](#) for compliance information. Or for more information see the VITA 63 MIL-COTS modules [page](#).

Table. Key electrical specs for the 6U VITA-62-Compliant power supply and the related 3U products.

Part #	Nom. input	Size	Input range	Power rating (W) per output voltage					
				+12 V	+5 V	+3.3 V	+3.3 V	+12 V	-12 V
VIT270w3U600yzzz	270 V	3U	220 to 320 V	480	150	66	19.8	12	12
VIT028x3U600y000	28 V	3U	18 to 45 V	480	150	66	19.8	12	12
VIT028x6U1000y000	28 V	6U	18 to 42 V	840	160	N/A	99	12	12

3U = 6.6 x 3.9 x 0.9 in and 6 U = 6.6 x 9.2 x 0.9 in.