

NEVO+ SERIES

OUTPUT MODULE 4: 18V-58V, 3.75A, 150W

OP4 DATASHEFT

REACH

20

18

16

14

12 **2**

10 lts (

8

6

4

2

0

6

5

Amps

2

0

10

0.25

14

CE FC \bigcirc CB **OUTPUT 4 SPECIFICATIONS OUTPUT 4 POWER PROFILE** Units 70 Details Typ Parameter Min OVP Output voltage range See table 18 48 58 V 60 PEAK POWER Rated current 3.75 NGF 50 Average output power 150 Watts CONTINUOUS POWE See graph, < 5 seconds /olts 40 SUUS. 225 Watts Peak output power 50% duty cycle 30 Initial voltage accuracy Factory set units -0.5 0.5 0/6 Manual Voltage Adjust V/turn 11 turn potentiometer 3.6 20 Load Regulation Measured at sense terminals -300 300 m٧ 10 Line Regulation Measured at sense terminals -0.1 0.1 %Vnom HICCUP **Cross Regulation** Measured at sense terminals -0.2 0.2 %Vnom 0 2 3 Minimum Load 0 Watts Amp Temperature coefficient -0.02 0.02 %/°C STOP/START **Ripple and Noise** 20MHz BW, pk-pk %Vnom 1 25% to 75% load transient at 3 V 50 Transient response 0.25A/uS Recovery to within 10% of Vset 100 uS 40 Turn on rise time Monotonic 10% to 90% 1.5 3.5 mS (Vout Turn on overshoot 0.1 %Vset 30 Volts AC to PG 600 750 mS Turn on delav 20 En to PG 20 15 mS Current share accuracy %lmax 5 10 Open sense, voltage offset due Open sense offset 2 %Vnom to bias currents 0 Holdup voltage 50 V 2 4 10 12 Each terminal Isolation to ground 250 V Over current protection % of rated current 105 125 %rated TRANSIENT RESPONSE Reverse current % of rated current 0 %rated -6 protection 1.5 Period 125 mS 0 Short circuit protection Duty cycle 3 % (Hiccup mode) Voltage threshold (Measured at -1.5 3.5 ν sense terminals) /olte -3 V 66 Over voltage protection Latching -4.5 **Over Temperature** Internally monitored. Latching °C 115 125 protection -6 V Positive -3 3 Sense cable protection -7.5 Negative 2 V Power Good threshold Low threshold only 90 %Vset -0.75 -0.55 -0.35 -0.15 0.05 ISIG=0.6+IOUT/(IRTD*1.25) 110 %Irated Current output signal 0 mS Current limit control ILMT = (VCTRL-0.6)*IRTD*1.25 0 110 %Irated RIPPLE Remote voltage control VOUT=VSET((1.8-VCTRL)/0.6) 0 300 %Vset 0.2 **Bias supply** 10mA max 4.5 5 5.2 V 0.15 Reliability 40°C 80% load FPMH 1 0.1 Warranty 2 Years 0.05 AWG Wire Size 20 18 10 Volts 0 Weiaht 60 Grams Size 60mm x 35mm x 17mm -0.05 -0.1 Notes: All specifications are believed to be correct at time of publication and are subject to change -0.15 without notice. -0.2

All specifications are believed to be correct at time of publishing. Vox Power Ltd reserves the right to make changes to any of its products and to change or improve any part of the specification, electrical or mechanical No specifications of any offic process without notice. Vox Power Ltd reserve and singli to make charge to any offic products and of any of its products and of any information to the maximum extent permitted by law. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any products of Vox Power Ltd. VOX POWER LTD DISCLAIMS ALL WARRANTIES AND REPRESENTATIONS OF ANY KIND WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF SUITABILITY, FITNESS FOR PURPOSE, MERCHANTABILITY AND NONINFRINGEMENT. Please consult your local distributor or Vox Power directly to ensure that you have the latest revision before using the product and refer to the latest relevant user manual for further information relating to the use of the product. Vox Power Ltd products are not intended for use in connection with life support systems, human implantations, nuclear facilities or systems, aircraft, spacecraft, military or naval missile, ground support or control equipment used for the purpose of guidance navigation or direction of any aircraft, spacecraft or military or naval missile or any other application where product failure could lead to loss of life or catastrophic property damage. The user will hold Vox Power Ltd harmless from any loss, cost or damage resulting from its breach of these provisions.

-10

-5

DOC-DTS-014-01, NEVO+ series output 4 datasheet

uS

5