

Introduction

The PS140 provides **3 regulated voltages: 12 V, +12 V, 5 V**. It also has a 3 A integrated battery charger and “hot plug” capability.

The maximum power for shared system operation is 150 W. When the battery is charging at maximum current, the maximum power for voltage supplies is 80 W. A heat sink or fan may be required above 100 W, depending on mounting.



Specification

Features	4 voltage rails provided for wide application range Integrated battery charger for 3 or 4 cell Li-ion battery (12 V).	
Applications	General Opto-Electronic Measurements Spectroscopy, OEM applications	
Specifications	Parameter	Value
Input	Voltage	10 – 30 V
	Current	Typically about 7 A at full load at 12 V
	Ripple	150 mV peak-to-peak maximum
Output 1	Voltage	4.8-5.4 V adjustable
	Current	5 A continuous, 8 A peak / 30 sec /
	Ripple	50 mV p-p (DC-20 MHz)
	Operating frequency	300 kHz
Output 2	Voltage	12 V
	Current	1.8 A continuous, 2 A peak
	Ripple	40 mV p-p (DC-20 MHz)
Output 3	Voltage	12 V
	Current	1.2 A continuous, 2 A peak
	Ripple	40 mV p-p (DC-20 MHz)
Output 4	Voltage	-12 V
	Current	0.3 A continuous, 0.6 A peak
	Ripple	40 mV p-p (DC-20 MHz)
Charging	Operating frequency	2 MHz
	Max current	3 A
	Termination	C/10 trickle charge over 90%
	Voltages	4 types from 9 to 13 V
	Connection	Hot plug
	Temperature control	Temperature control (optional) with 10k thermistor 0-40° C
Dimensions (WxHxD)	4 x 4 x 0.75 inches	
Storage Temp	-55 to 85 C	
Operating Temp	-40 to 85 C, Forced cooling must be provided above 70°C	