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“Advanced OEM Component Technologies”



GLOBAL2412-25

DESCRIPTION: THE SM2412-25 IS A GENERAL PURPOSE DC-DC CONVERTER, ALLOWING OPERATING VOLTAGES AS LOW AS 20 VDC AND AS HIGH AS 60 VDC INPUT AT A REGULATED 13.8 VDC OUTPUT.

PURPOSE: OPERATING STANDARD 12 VOLT DC EQUIPMENT (LIGHTS, RADIOS, COMPUTERS, CELL PHONES, AND TWO WAY RADIO) FROM A NON STANDARD ELECTRICAL SYSTEM.

FEATURES:

- SWITCHED VOLTAGE REGULATED
- HIGH EFFICIENCY
- 25A CONTINUOUS OUTPUT CURRENT
- CURRENT LIMITED
- CHAOS LATCHING
- SHORT CIRCUIT PROTECTED
- REVERSE VOLTAGE PROTECTED
- THERMAL PROTECTED
- SOFT START
- OVER VOLTAGE PROTECTED
- SHIELDED AGAINST NOISE AND RF INTERFERENCE
- INPUT AND OUTPUT FILTERING
- HIGH VOLTAGE PREREGULATION
- MINIMUM AND MAXIMUM VOLTAGE LOCKOUTS

ELECTRICAL CHARACTERISTICS

PARAMETER'S MIN MAX AVG

INPUT VOLTAGE RANGE 20 VDC 60 VDC 45 VDC
INPUT CURRENT NO LOAD 100 MA 200 MA 150 MA
INPUT CURRENT FULL LOAD 6A @60 VDC 16A @25 VDC 9A @45 VDC
OUTPUT VOLTAGE 13.6 VDC 13.9 VDC 13.8 VDC
OUTPUT CURRENT FULL LOAD 24.0 A 27.0 A 25.5 A
LOAD REGULATION (.5-25A) .015 VDC .200 VDC .100 VDC
OUTPUT RIPPLE (25A LOAD) .010 VDC .030 VDC .020 VDC
SWITCHING FREQUENCY 50 KHZ 60 KHZ 55 KHZ
EFFICIENCY (1-25A LOAD) 80% 92% 85%
CASE TEMPERATURE AT SHUT DOWN 150' F 170' F 160' F
MAX OPERATING VOLTAGE RANGE 20 VDC 80 VDC
(LOGICAL LOCKOUTS)
MAX INPUT SPIKE DURATIONS 150 VDC FOR 1 MIN - 400 VDC FOR 1 MS