

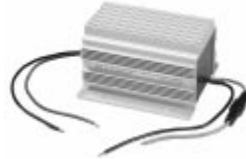
Global Industrial Products

Headquarters:
3338 West Lake Ave.
Glenview, IL 60025
Toll Free: (800) 951-8774
Fax: (847) 901-4036
Email:
sales@globalepower.com

Pacific Northwest Office:
17614 NE 110th Avenue
Battle Ground, WA 98604
Toll Free: (800) 838-7126
Fax: (360) 687-2875
Email: rusty@globalepower.com

Kansas Office:
8460 West 108th Place
Overland Park, KS 66210-1603
Toll Free: (888) 451-8699
Fax: (913) 451-8699
Email: jim@globalepower.com

“Advanced OEM Component Technologies”



GLOBAL2412-10

DESCRIPTION: THE SM2412-10 IS A GENERAL PURPOSE DC-DC CONVERTER, ALLOWING OPERATING VOLTAGES AS LOW AS 18 VDC AND AS HIGH AS 55 VDC INPUT AT A REGULATED 13.8 VDC OUTPUT.

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

FEATURES:

- SWITCHED VOLTAGE REGULATED
- HIGH EFFICIENCY
- 10 A CONTINUOUS OUTPUT CURRENT
- CURRENT LIMITED
- SHORT CIRCUIT PROTECTED
- THERMAL PROTECTED
- UNDER VOLTAGE LOCKOUT
- SOFT START (FOR STARTING INDUCTIVE LOADS)
- REVERSE VOLTAGE PROTECTED
- OVER VOLTAGE PROTECTED
- SHIELDED AGAINST NOISE AND RF INTERFERENCE
- INPUT AND OUTPUT FILTERING

ELECTRICAL CHARACTERISTICS

PARAMETER'S MIN MAX AVG

INPUT VOLTAGE RANGE 18 VDC 55 VDC 24 VDC
INPUT CURRENT NO LOAD 80 MA 150 MA 100 MA
INPUT CURRENT FULL LOAD 3A @55 VDC 9.5A @18 VDC 7A @ 24 VDC
OUTPUT VOLTAGE 13.7 VDC 13.9 VDC 13.8 VDC
OUTPUT CURRENT NO LOAD 20 MA 50 MA 30 MA
OUTPUT CURRENT FULL LOAD 10.0 A 13.0 A 10.5 A
CURRENT LIMITING 10.5 A 13.0 A 11.0 A
LINE REGULATION (18-55 VDC) .005 VDC .015 VDC .01 VDC
LOAD REGULATION (.5- 10 A) .015 VDC .250 VDC .100 VDC
OUTPUT RIPPLE (10 A LOAD) .025 VDC .055 VDC .04 VDC
SWITCHING FREQUENCY 70 KHZ 80 KHZ 75 KHZ
EFFICIENCY (1-10 A LOAD) 80% 92% 85%
THERMAL SHUT DOWN (AT SENSOR) 200' F 260' F 240' F
CASE TEMPERATURE AT SHUT DOWN 120' F 200' F 140' F
SHORT CIRCUIT VOLTAGE .05 VDC 2.0 VDC 1.5 VDC
SHORT CIRCUIT CURRENT .1A 1.0A .7A
UNDER VOLTAGE LOCKOUT 11.4VDC 12.6VDC 12VDC