

GLOBAL INDUSTRIAL PRODUCTS 800-951-8774 FAX: 847-901-4036
SM7212-25

DESCRIPTION: THE SM7212-25 IS A GENERAL PURPOSE DC-DC CONVERTER, ALLOWING OPERATING VOLTAGES AS LOW AS 40VDC AND AS HIGH AS 110VDC INPUT AT A REGULATED 13.8VDC 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	40VDC	110VDC	75VDC
INPUT CURRENT NO LOAD	100MA	200MA	150MA
INPUT CURRENT FULL LOAD	4A @100VDC	8.5A @50VDC	5.6A @75VDC
OUTPUT VOLTAGE	13.6VDC	13.9VDC	13.8VDC
OUTPUT CURRENT FULL LOAD	24.0A	27.0A	25.0A
LOAD REGULATION (.5-25A)	.100VDC	.500VDC	.200VDC
OUTPUT RIPPLE (25A LOAD)	.010VDC	.040VDC	.030VDC
SWITCHING FREQUENCY	50 KHZ	60 KHZ	55 KHZ
EFFICIENCY (1-25A LOAD)	78%	85%	80%
CASE TEMPERATURE AT SHUT DOWN	150' F	170' F	160' F
MAX OPERATING VOLTAGE RANGE (LOGICAL LOCKOUTS)	37VDC	125VDC	
MAX INPUT SPIKE DURATIONS	150VDC FOR 1MIN - 400VDC FOR 1MS		