



MODEL 6958
DC-DC LITHIUM IRON PHOSPHATE
(16 Cell) BATTERY CHARGER
12V Source to 48V Battery; 22A

Design Features

- Programmable Charge Curve
- Low Input Voltage Cutout
- Compact design
- Convection and Forced Air Cooled
- Electronic Current Limiting
- Common Input/Output Negative Terminal
- Soft start technology
- Supplied with Cable Terminals

Model 6958 is designed to meet the emerging need to charge lithium battery banks from 12V systems. Model 6958 will output 22A @ 58V in full charge mode and can be operated while load is drawn from the battery bank being charged. Off the shelf units are ideal for use with lithium iron phosphate batteries. Model 6958 is microprocessor controlled and can be programmed at the factory for operation with other battery types.

SPECIFICATIONS		
INPUT	SOURCE BATTERY SYSTEM VOLTAGE	12 VDC
	NOMINAL INPUT VOLTAGE	12.75 VDC
	INPUT VOLTAGE RANGE	11 to 16 (+/- 0.5) VDC
	INPUT CURRENT AT MAX CONTINUOUS POWER	130 A
	INPUT CURRENT AT NO LOAD	0.36 A when converter is in "ON" state
	INPUT CURRENT AT NO LOAD	<0.012 A when converter is in "OFF" state
OUTPUT	MAX OUTPUT VOLTAGE	58.4 / 55.2 (LiFePO4 Battery) / Lead Acid
	Model 6958 may be factory programmed for Lithium batteries with other chemistries	
	OUTPUT VOLTAGE REGULATION	< 60 mV in constant voltage charging phase
	MAX OUTPUT CURRENT	22 A (during high charge portion of charge cycle)
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	1500 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
PROTECTIONS	EFFICIENCY AT MAX CURRENT	89% @ max current, 13.2 V input (100% duty cycle)
	LOW INPUT VOLTAGE SHUTDOWN	factory set at 10.5 VDC
	LOW INPUT VOLTAGE RESET	Factory set at 11.5 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	> 17.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic vertical knee type at power limit with shutdown requiring rest if voltage drops below 45V
	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
CONNECTIONS	INPUT-OUTPUT ISOLATION	Input and Output Grounds are common
	INPUT CONNECTION	DIN Terminal Block
	OUTPUT CONNECTION	DIN Terminal Block
	REMOTE CONTROL PORT	YES - control terminal may be connected to 12V terminal on control block via switch or relay or may be connected to 12V via the ignition switch.
ENVIRONMENT	AMBIENT AIR OPERATING TEMPERATURE RANGE	-40C to +50C Derate 15% per 10C above 40C to a maximum of 60C
	OPERATING HUMIDITY	<95%, non condensing
	ALTITUDE	6000 meters
VISUAL INDICATORS	Two Lights Operating in OFF/ON/FLASHING Modes	Unit On/Off High Charge Float Charge Undervoltage Lockout Overload or Short Circuit
	MECHANICAL	DIMENSIONS, INCHES (L x W x H)
MOUNTING CENTERS, INCHES		17.30 x 3.93
VIBRATION & SHOCK RESISTANT		Internally Encapsulated
WEIGHT (LB/KG)		18.0 / 8.5

NOTE: Specifications are subject to change without notice.