



MODEL 6929
DC-DC LITHIUM IRON PHOSPHATE
(8 Cell) BATTERY CHARGER
12V Source to 24V Battery; 45A

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 6929 is designed to meet the emerging need to charge lithium battery banks from 12V systems. Model 6929 will output 45A @ 29V 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 6929 is microprocessor controlled and can be programmed at 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	125 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	29.2 / 27.6 (LiFePO4 Battery) / Lead acid	
	Model 6929 may be factory programmed for Lithium batteries with other chemistries		
	OUTPUT VOLTAGE REGULATION	< 60 mV in constant voltage charging phase	
	MAX OUTPUT CURRENT	45 A (during high charge portion of charge cycle)	
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	1400 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 reset if voltage drops below 22V	
	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	
VISUAL INDICATORS	ALTITUDE	6000 meters	
	Two Lights Operating in OFF/ON/FLASHING Modes	Unit On/Off	
		High Charge	Undervoltage Lockout
MECHANICAL		Float Charge	Overload or Short Circuit
	DIMENSIONS, INCHES (L x W x H)	17.8 x 6.9 x 3.6	
	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.