

INTERNATIONAL HEADQUARTERS 20 Willow Springs Circle, York, Pa. 17402, (717) 767-6511 FAX: (717) 764-0839 Web site- http://www.redlion-controls.com E-mail- sales@redlion-controls.com EUROPEAN HEADQUARTERS 892 Plymouth Road, Slough, Berkshire SL1 4LP

ENGLAND +44 1753 696888 FAX: +44 1753 696339

MODEL 513 - NON-INTERRUPTIBLE POWER SUPPLY

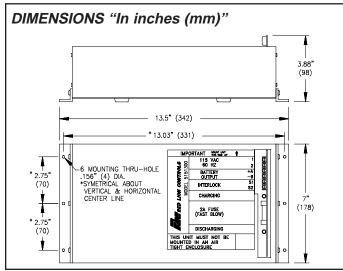


- 8 AMP-HOUR BACK-UP CAPACITY
- MAINTAINS FULL OPERATIONAL CAPABILITY-NOT JUST "MEMORY BACK-UP"
- BACK-UP FOR TEN OR MORE COUNTERS & ACCESSORIES
 FROM ONE UNIT
- NON-LEAK, GELLED ELECTROLYTE BATTERY
- SEPARATE CHARGE & DISCHARGE REGULATOR CIRCUITS MAINTAIN 100% CAPACITY

DESCRIPTION

The Model 513, Non-Interruptible Power Supply is designed to permit continued operation of single or multiple counter systems during power-loss conditions. Sustaining operation during power-loss is decidedly superior to simple "memory retention" or "memory back-up" in most industrial applications. "Memory retention" simply ensures that count data, existent at the instant of power-loss, will be retained. This is adequate only in situations where the machine or process is in a stand-still condition when power-loss occurs. Most industrial processes and production machines do not stop instantly when power loss occurs, and counts lost during the period a machine is coasting to a stop will cause significant error and waste.

The Model 513 maintains a fully charged back-up power source that is applied instantly and smoothly during a power loss, keeping all counting circuits and sensors activated so no data is lost. The 8 amp-hr capacity also ensures that back-up can be provided for an extended period, even with heavy loads imposed by multiple counter sensor systems. (*Note: Both Series 600 and SC Counters have provisions for L.E.D. display blanking during backup operation to reduce load and extend back-up operating time.*)



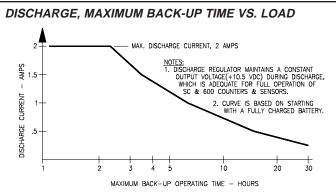
ORDERING INFORMATION

MODEL NO.	DESCRIPTION	A.C. POWER INPUT	PART NUMBER
513	Non-Interruptible Power	115 VAC	5151301
	Supply (Less batteries)	230 VAC	5151311
-	12 V Rechargeable Gel. Battery	-	0100200

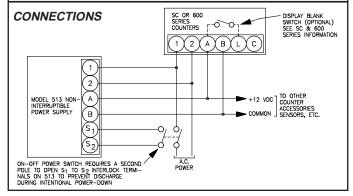
Model 513 Units shipped less battery. Battery must be ordered separately & installed in the field.

SPECIFICATIONS

- 1. **PRIMARY SUPPLY VOLTAGE:** Available in 2 voltage ratings for 115 VAC and 230 VAC, ±10%, 50/60 Hz.
- BATTERY CAPACITY: 10.5 VDC output voltage, 8 amp-hr @ 20 hr discharge rating. Max. discharge current 2 amps.
- 3. **DISCHARGE TIME:** See curve below.
- 4. CHARGING TIME: Full charge recovery from deep discharge in 24-30 hrs.
- 5. OPERATING TEMPERATURE RANGE: -20° to +50°C.
- MOUNTING: Bulkhead mounting with 6 screws. Must be mounted in proper orientation (marked with "UP" arrow on case). Unit must not be mounted in an air-tight enclosure.
- 7. WEIGHT: 2.75 lbs (1.3 kg) (less battery) Battery weight 8 lbs (3.6 kg).

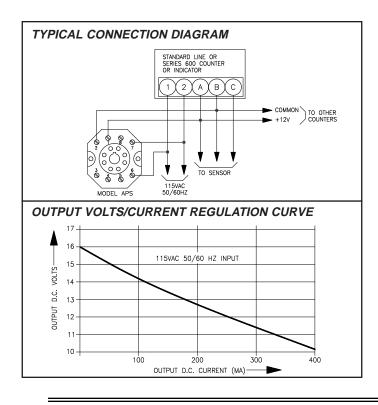


To use the above curve, total all current loads of counters, sensors, and accessories in the system and find Maximum Back-up Operating Time from curve. Required Supply Currents for Counters, Sensors, and Accessories can be found on individual data sheets or in appropriate RLC catalog section.



MODEL APS - OCTAL PLUG-IN ACCESSORY POWER SUPPLY

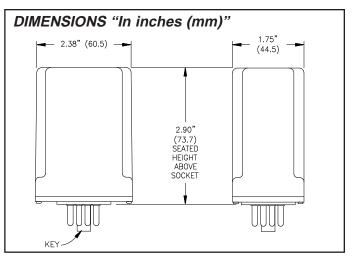




PROVIDES . . .

- +12 VDC "HELPER" SUPPLY FOR LOAD SHARING WITH UNREGULATED COUNTER SYSTEMS WITH UNUSUAL SENSOR AND ACCESSORY LOADS, OR . . .
- "STAND-ALONE" APPLICATIONS FOR POWERING SENSORS AND ACCESSORIES

The Model APS is an unregulated +12 VDC supply designed to load share when connected in parallel with internal power supplies of many Red Lion Controls Counters and Rate Indicators. It can also be used as a general purpose "Stand-alone" power supply to power other control circuits, sensors and accessories. The APS is furnished for 115 VAC or 230 VAC, $\pm 10\%$, 50/60 Hz primary supply. Operating temperature range is -20° to +50°C. Output current is per regulation curve.



ORDERING INFORMATION

MODEL NO.	DESCRIPTION	PART NUMBER
APS01	115 VAC Accessory Power Supply	APS01000
APS02	230 VAC Accessory Power Supply	APS02000

Mating Sockets sold separately, see below.

ACCESSORY PLUG-IN RELAY



PLUG-IN RELAYS PROVIDED FOR EASY SERVICING & MAINTENANCE

ORDERING INFORMATION

DESCRIPTION	COIL	PART
DESCRIPTION	VOLTAGE	NUMBER
	12 VDC	RLY10000
DPDT Plug-in Relay	115 VAC	RLY30000
	230 VAC	RLY40000
Base Mount 8-pin Octal S	SKT10000	
Din Rail 8-pin Socket	SKTDIN00	

These industrial relays have a mechanical life expectancy in excess of 10 million cycles, and are both U/L and CSA recognized.

RELAY SPECIFICATIONS

COIL: 12 VDC Coil - 120 $\Omega \pm 10\%$, Rated +12 VDC @ 100 mA. 115 VAC Coil - 2250 Ω ±10%, Rated 115 VAC @ 52 mA 230 VAC Coil - 9110 $\Omega \pm 10\%$, Rated 230 VAC @ 25 mA CONTACTS: 10 A @ 115 and 230 VAC (1/6 HP @ 115 V, 1/3 HP @ 230 VAC) **OPERATING TIMES:** Energize - 30 msec max. De-energize - 30 msec max. Operating times do not include bounce time (approx. 3 msec). **OPERATING TEMPERATURE RANGE:** -45° to +60°C ELECTRICAL LIFE: In excess of 100,000 operations @ rated load.

WEIGHT: 3 oz (85.1 g)

Mating sockets sold separately. See Ordering Information.

