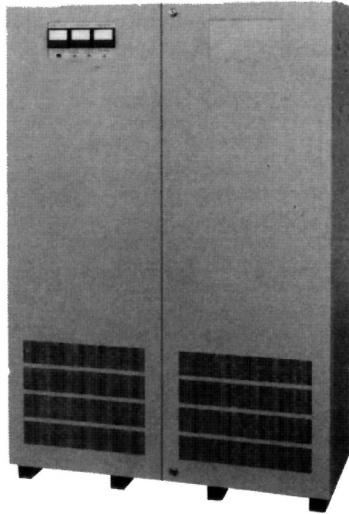


**CENTRAL INVERTER SYSTEMS**  
**SOLID STATE, BATTERY POWERED EMERGENCY AC POWER SYSTEMS\***

**IPS - INTERRUPTIBLE POWER SYSTEMS**  
**UPS - UNINTERRUPTIBLE POWER SYSTEMS**



**WHY?**

AS INDUSTRIAL AC LOAD REQUIREMENTS BECOME MORE COMPLEX, THE NEED FOR EMERGENCY STANDBY POWER INCREASES IN IMPORTANCE. MANY CRITICAL LOADS ARE HIGHLY SENSITIVE TO THE INTERRUPTION OF UTILITY-SUPPLIED POWER. AC POWER LOSS OR REDUCTION IS UNACCEPTABLE WHEN DELICATE INSTRUMENTATION, MEMORY STORAGE, SECURITY SYSTEMS OR LIGHTING SYSTEMS ARE INVOLVED. WHERE POTENTIAL UTILITY POWER FAILURE THREATENS THE INTEGRITY OF CRITICAL LOADS, A RELIABLE, INDEPENDENT SYSTEM OF EMERGENCY STANDBY POWER IS NECESSARY.

**How?**

A CENTRAL INVERTER SYSTEM CONSISTS OF A BANK OF BATTERIES, DC- TO- AC INVERTER, BATTERY CHARGER AND ASSOCIATED SWITCHING AND WIRING COMPONENTS. IN THE SYSTEM'S STANDBY MODE, NORMAL UTILITY POWER IS SUPPLIED TO THE CONNECTED LOAD THROUGH A TRANSFER DEVICE WHICH MONITORS THE SUPPLY FOR CONTINUITY. IN THIS MODE, THE CHARGER MAINTAINS THE BATTERIES AT FULL CHARGE. LOSS OR INTERRUPTION OF UTILITY POWER INITIATES THE OPERATIONAL MODE, IN WHICH THE INVERTER DRAWS DC POWER FROM THE BATTERIES AND CONVERTS IT TO EMERGENCY AC POWER TO SUPPLY THE LOAD. THE SYSTEM WILL PROVIDE EMERGENCY POWER IN THIS MANNER FOR A RATED TIME, NORMALLY 1 1/2 HOURS, OR UNTIL THE UTILITY SUPPLY IS RESTORED. IT THEN RETURNS TO THE STANDBY MODE AND ENTERS A BATTERY RECHARGE CYCLE. ALL FUNCTIONS ARE COMPLETELY AUTOMATIC.

\* ALL INVERTER SYSTEMS ARE MANUFACTURED ON A CUSTOM DESIGN BASIS.

# I N V E R T E R   S Y S T E M S

**IPS**  
 1000 VA TO 15 KVA  
 OUTPUT  
 IPS INTERRUPTIBLE  
 SINE WAVE

**UPS**  
 100 VA TO 15 KVA  
 OUTPUT  
 UPS UNINTERRUPTIBLE  
 SINE WAVE

POWER SOURCE FOR AC LOADS  
 ABLE TO WITHSTAND A  
 MOMENTARY INTERRUPTION OF  
 POWER. TRANSFER INTERVAL:  
 ONE SECOND. INVERTER  
 IS INACTIVE UNTIL A POWER  
 INTERRUPTION OCCURS.  
 AVAILABLE IN OUTPUT  
 RATINGS FROM 1,000 TO  
 15,000 V.A.  
 STANDARD CIRCUIT PROTECTION:  
 LOW-VOLTAGE DISCONNECT,  
 SHORT-CIRCUIT PROOF,  
 CURRENT-LIMITING AND FUSED  
 BATTERY CIRCUIT.

POWER SOURCE FOR AC LOADS THAT  
 REQUIRE PRECISELY-REGULATED  
 POWER FOR NORMAL OPERATION.  
 TRANSFER INTERVAL:  
 NON-CONTINUOUS OPERATION.  
 INVERTER OPERATES  
 CONTINUOUSLY SO THAT  
 NO INTERRUPTION IN  
 POWER OCCURS.  
 AVAILABLE IN OUTPUT  
 RATINGS FROM 1,000 TO 15, 000 V.A.  
 STANDARD CIRCUIT PROTECTION:  
 LOW-VOLTAGE DISCONNECT, SHORT-CIRCUIT  
 PROOF, CURRENT-LIMITING, FUSED BATTERY  
 CIRCUIT AND BROWNOUT PROTECTION.

IPS	APPLICATIONS	UPS
	H.I.D. Lighting	X
X	Incandescent Lighting	X
X	Fluorescent Lighting	X
X	Emergency Lighting	X
X	TV Monitors	X
X	Remote Unattended Equipment	X
X	Fire and Burglar Alarms	X
X	Hospital Electronics	X
	Computer Equipment	X
X	R.F. Transmitters and Receivers	X
X	Key Telephones	X
X	Teletype or Telex	X
X	Telephone Switching Systems	X
X	Electronic Cash Registers	X
X	Intercoms	X
X	Microwave Relay	X
X	Industrial Control Equipment	X
X	Relays and Transformers	X
X	Emergency Radios	X
X	*Motor Drives	X
X	Heating Controls	X

\* CONTACT THE FACTORY WHEN POWERING ANY LARGE INDUCTION MOTOR LOADS.  
 THESE MOTORS IN SOME CASES DRAW UP TO 10 TIMES THEIR NORMAL INPUT CURRENT  
 TO START PROPERLY.



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THE POWER TO PROTECT