

HYBRID UNINTERRUPTIBLE POWER SUPPLY

We provide uninterruptible power supply to provide backup for traffic signal controllers in case of primary power source failure.

XIP2.0-40A UPS

The Power Backup System for Traffic Signal Controller is designed and installed for outdoor applications. It has built-in Reactor Power Line Conditioner (RPLC) with power-on delay, Automatic Voltage Regulation (AVR), MOV surge protection, full time EMI/RFI noise suppression and Electronic fuse for inverter output short circuit protection. This is to ensure the continuous operation against power irregularities such as spikes, surge and particularly lightening during thunderstorm. The protection system is capable to withstand transient voltage surge up to 6KV as defined by IEEE C62.41 for category A3. It also come with over current protection and automatic switch over to inverter mode when AC mains over/under voltage.



Operational Specifications

Model	XIP2.0-40A
Power Rating	2KVA
Battery Size	Recommended 2-6 blocks of 12V/100A
Battery Type	100 AH Maintenance Free Battery
Battery Life Expectancy	3 -5 Years (under normal operating condition)
Backup Time	4 - 12 Hours based on peak loading of 2K VA and continuous loading of 0.8KVA - 1.6 KVA (90% full load), with the recommended battery size
Visual Indication	LED Bar-graphs for Load and Battery Status Levels Panel LED's to indicate Mains (on-line), Inverter (On-battery). Better), Low/ Memel, (Replace Battery/ Overload), Battery, Low/ Memory, (Replace Battery/ Overload)
Remote Indication (Open Collector TTL via DB9 Port)	AC Mains Fail, Charger Fail, Low Battery
Ambient and Humidity	Maximum 60°C ambient temperature. 95% non-condensing



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Technical Specifications

Model	XIP2.0-40A	
Power Rating	2KVA	
Configuration	Hybrid System	
Transfer Time	No significant (~Zero) Transfer Time (Intelligent detection for power failure)	
Input Voltage	170 Vac - 290 Vac (or 230V $\pm 10\%$). 50 Hz	
Output Voltage	230 Vac 3%. 50 Hz Sinewave Operation	
Output Power Factor	0.8	
Inverter Efficiency	> 95 % at full load	
Charger	24V, 40Amp charger for high capacity battery bank	
Charging Time	is 3 - 8 hours to 90% fully charged for the recommended battery	
Bypass Facility	Automatic, Manual Bypass Operation Mode Hot-swappable UPS Module for servicing convenience	
Protection	Built-in Isolation Reactor Power Line Conditioner with Automatic Voltage Regulator (AVL) Capability to withstand transient voltage surge up to 6KV with Transient Voltage Surge Suppressors with 3 x 15 KA 3-poles 8/20us Surge Rating, < 5nS Response Time and < 10uA Leakage Current Output Over-Current and Short Circuit 'Electronic Fuse' Protection Automatic switch over to Inverter Mode when AC Mains over/under voltage	
MCB's	AC Input MCB, Battery MCB, AC Output MCB	
Alarms	Intermittent Audible Alarm on Inverter Mode. Frequency Increase as Battery Runs Down	
Power Status Management	Auto for Power Monitoring	
Method of Colling	Ventilation Fan	
Casing	EG steel easing with epoxy-oven paint	
Equipment Weight (Without Batteries)	UPS Module	20 KG
	Bypass Module	1.5 KG



IS TECHNOLOGY

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