



Don't burn your money...



**...Save
25 to 30
paise
on every
rupee of
electricity.**

STOP losing money, install Aplab's Energy Saver

Save 30% or more of energy bills for lights... without changing your tube-lights or other expensive light fittings such as Fluorescent, Sodium, Mercury or Metal Halide Light.

All these lights will last longer and will become much cheaper to run with the use of APLAB's Digitally controlled Energy Saving Power Source

With the use of APLAB's Energy Saving Power Source, the energy conservation at your place is real and substantial. They are essentially meant for switch start/magnetic ballast fluorescent and other discharge lamps. These Digital Energy Savers reduce the power consumption considerably with an imperceptible effect on light levels. Energy Saving Power Source pays back your investment within 1 – 2 years depending on the unit price of power and the hours of its use.

Most discharge lamps need the full mains only for its initial ignition, thereafter they don't need full mains. These Energy Savers allow the lamp to light and then reduces the voltage. They do not in any way interfere with the sine wave and hence generates no harmonics. If for any reason a fault occurs within the unit, it automatically switch to the by-pass mains mode so that the lighting network continue to function.

Energy Saving Power Source comes with an intelligent micro controller and a bright LCD panels to indicate the voltage, current, power, reactive power and offers many trend setting features in addition to its PC connectivity. These Energy Saving Power Sources are available in Single Phase and Three Phase Models.



Features:

- Micro-controller based digital controls.
- Work with existing system and easy to install
- Highly cost effective and offers best return on investment
- LCD metering to indicate power consumption and power saved
- Built in fault protection with indications
- Generate no harmonics
- Isolated RS485 half duplex, serial communication, Industry standard MODBUS RTU protocol
- CE marked

SPECIFICATIONS:

Single Phase:

Model	ESD1-25	ESD1-50	ESD1-75	ESD1-100	ESD1-150	
Input	Voltage	230V AC + 6%, -10%, Single Phase				
	Frequency	Range: 45-55Hz, Nominal: 50Hz				
Output	Voltage	190V – 195V – 200V AC (user selectable)				
	Current(max)	13.2A	26.5A	39.5A	53.0A	79.0A
	Power	2.5kVA	5.0kVA	7.5kVA	10.0kVA	15.0kVA
Efficiency	98% typical					
Protection	Over Load, Over Current, and Over Temperature trips					
Enclosure	IP 20, epoxy powder coated					
Displays & Indications	16 X 2 Alpha-numeric LCD Display for Voltage, Current, Active Power, Reactive Power, Apparent Power, Power factor, Energy saved. LED: INPUT, OUTPUT Presence & BYPASS mode					
Interface	Isolated RS485 half duplex, serial communication, Industry standard MODBUS RTU protocol					
Operating Temperature	0°C to +50°C					
Storage Temperature	-20°C to +70°C					

Three Phase:

Model	ESD3-75	ESD3-150	ESD3-225	ESD3-300	ESD3-450	
Input	Voltage	400V AC + 6%, -10%, Three Phase				
	Frequency	Range: 45-55Hz, Nominal : 50Hz				
Output	Voltage	330V – 338V – 345V AC (user selectable)				
	Current(max)	13.2A	26.5A	39.5A	53.0A	79.0A
	Power	7.5kVA	15.0kVA	22.5kVA	30.0kVA	45.0kVA
Efficiency	98% typical					
Protection	Over Load, Over Current, and Over Temperature trips					
Enclosure	IP 20, epoxy powder coated					
Displays & Indications	20 X 4 Alpha-numeric LCD Display for Voltage, Current, Active Power, Reactive Power, Apparent Power, Power factor, Energy saved for all phases. LED: INPUT, OUTPUT Presence & BYPASS mode					
Interface	Isolated RS485 half duplex, serial communication, Industry standard MODBUS RTU protocol					
Operating Temperature	0°C to +50°C					
Storage Temperature	-20°C to +70°C					

Output Power Ratings available:

- Single phase: 2.5kVA, 5.0kVA, 7.5kVA, 10.0kVA and 15.0kVA
- Three phase: 7.5kVA, 15.0kVA, 22.5kVA, 30.0kVA and 45.0kVA

Note : Other power ratings can be offered against specific requests.



POWER CONTROLS & CONVERSION DIVISION

Aplab Limited A-5, Wagle Estate, Thane 400 604. INDIA. T: 022-67395555, 2582 1861 F: 91-022-2582 3137
E: powersupply@aplab.com

■AGRA ■AHMEDABAD ■BANGALORE ■CHANDIGARH ■CHENNAI ■COIMBATORE ■INDORE ■JAIPUR ■KOLKATA ■LUCKNOW ■MUMBAI ■NEW DELHI
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