

Industrial Type Design
 12|24|48|72|96|
 110|125 VDC



EVT - EVR Series 1-4kVA

Features

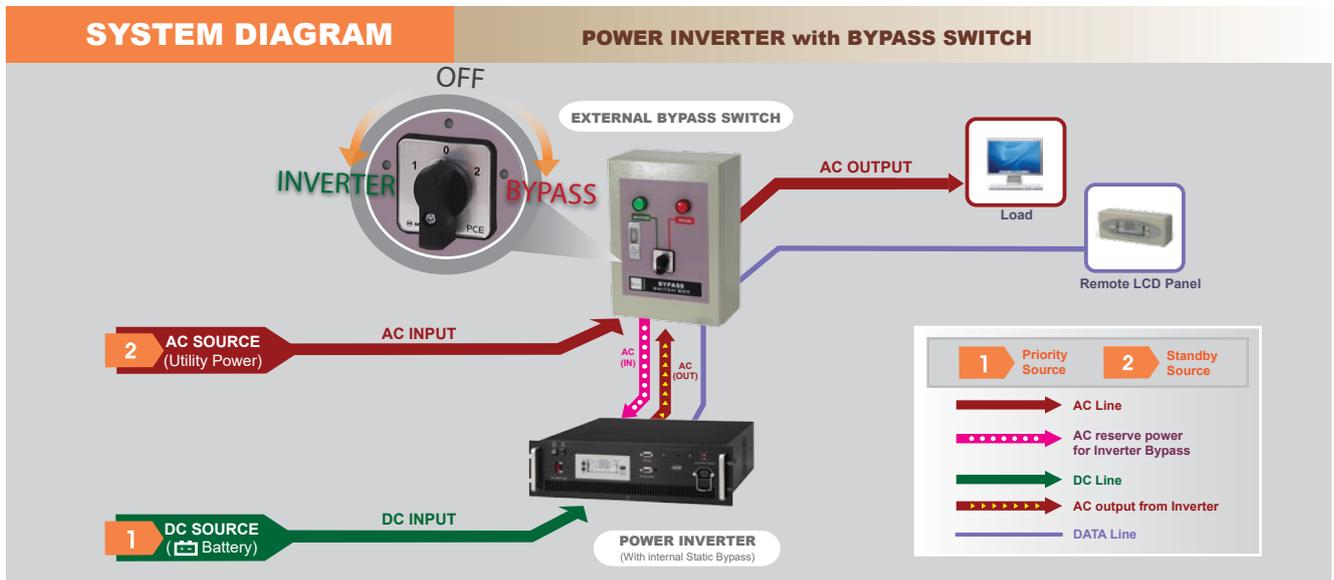
- Digital Microprocessor Control with Stabilizer
- AC and DC Duo Input with Sine Wave Output
- DC to AC Inverter with Isolated Structure
- Smart Automatic & Manual Bypass Function
- Wide DC Input Range with Polarity Protection
- All Kind of Load & Generator Compatible
- Automatic Restart of Load After Overload Shutdown
- Adjustable Low Battery Shutdown Level
- Full Function of LED / LCD with Audible Alarm
- Compatible with All Major O.S., Windows, Linux, UNIX, DOS (SNMP for optional)
- Fully Over load & Noise Filter & Surge / Short Circuit Protection
- Over Temp. Protection & Automatic Thermal Control Cooling Fan
- Remote LCD Panel & External Bypass Switch (Optional)

Duo Input Sine Wave Inverter
EVT — Tower Type
EVR — Rack Mount Type



SYSTEM DIAGRAM

POWER INVERTER with BYPASS SWITCH



* SPECIFICATIONS : Duo Input Sine Wave Inverter

Model :	Tower ▶	EVT-1700	EVT-2500	EVT-3500	EVT-4000	EVT-5000
	Rack Mount ▶	EVR-1700	EVR-2500	EVR-3500	EVR-4000	-
Power Rating : VA / W		1700 / 1200	2500 / 1800	3500 / 2400	4000 / 3000	5000 / 3500
DC Input						
Voltage		24Vdc (20~32Vdc)	-			
Typical Run Time		48Vdc (40~64Vdc), 72Vdc (60~96Vdc), 96Vdc (80~128Vdc), 108 / 110 / 120 / 125Vdc (90~144Vdc) Optional : (92~157Vdc), Optional : 220Vdc (175~270Vdc) / 230Vdc (180~280Vdc)				
Protection		Load < 100%, No Limit / 100% < Load < 120%, 30 minutes typical 120% < Load < 190%, 1 minute maximum / 190% < Load, 0.25 second typical				
Monitoring		Input polarity protection (By DC relay), DC fuse protection (60A or 120A, depending on DC voltage and VA rating), Over current protection (2KHz Switching, real time protection), Under voltage protection (Adjustable by using the remote set-up software), Over voltage protection (CPU control)				
AC Input (Optional input)		Smart monitoring & warning for failed battery				
115V Models / 230V Models						
Input Voltage		100V / 110V / 115V / 120V / 125V Selectable or 200V / 220V / 230V / 240V Selectable				
Input Frequency		47Hz~65Hz, 50/60Hz auto-sensing				
Efficiency		97% (Normal mode)				
Over Current Protection		By re-settable over current protector				
AVR Range (2 Bucks, 2 Boosts)		Enhanced Buck : +24% of selected nominal voltage, Buck mode: +8% of selected nominal voltage Boost mode : -8% of selected nominal voltage, Enhanced Boost : -20% of selected nominal voltage				
Surge Protection (Only available when AC Input included)	115V Models ▶	324 Joules				
	230V Models ▶	440 Joules				660 Joules
OUTPUT						
115V Models / 230V Models						
Output Voltage		100V / 110V / 115V / 120V / 125V Selectable or 200V / 220V / 230V / 240V Selectable				
Voltage Waveform		Pure Sine Wave				
Crest Factor / Efficiency		5 : 1 / 86%				
Output Frequency		50 / 60Hz ±0.05% (Selectable by using the remote set-up software)				
Regulation		±1% (Output voltage adjustable by using the remote set-up software)				
Transfer Time (brownout situation)		2 Ms typical (Bypass to inverter mode), Zero (Inverter mode to bypass mode)				
Over Current Protection		Over load alarm level 100% ~120%, Over load shutdown level 120% ~ 190% (Adjustable by using the remote se-up software)				
THD / Maximum Surge Power		< 2% at linear load / ≥ 200%				
Additional Feature						
Input Priority Swappable Mode		Easy to change the AC / DC Input Priority by select the All-in-one switch button				
External Bypass Switch (Optional)		The External Bypass to select the AC (Utility) / DC (Inverter) source for maintenance the Inverter or batteries				
Remote LCD Panel (Optional)		All the operation data will be displayed on LCD screen, and communicate with UPS / Inverter from a distance by the RJ-45 phone cable				
Communications & Management						
Optional Interface Port		UPSilon 2000 management software compatible for RS-232 & USB Ports (Optional : ① SNMP ② DB-9 / Dry Contact : AC Fail, DC Fail, Inverter OFF / Fail)				
Control Panel		LCD or LED Selectable (Rack units with LCD only)				
Display Panel (LCD Indicates)		Overload, AC Input fail, Bypass mode, Buck & Boost mode, Thermal alarm, Fan is High Speed, Silence mode, Inverter fault, Battery : Normal / Low / High, AC Input & Output Voltage, AC Output Frequency, DC Input Voltage, Temperature, DC Voltage Level, Load Level				
Audible Alarm		Alarm on battery : Low battery & Battery over voltage Alarm on abnormal operation : Over load & Under voltage, Short-circuit, & Over heat				
Cooling fan Control		Auto On / Off, controlled by temperture & operation mode				
Environmental and Safety						
Operating Temperature		Up to 1500 meters -20°C to +50°C				
Relative Humidity		0~95% non condensing				
Audible Noise		≤ 40 dBA (At 1M from surface of unit)				
Power Recovery		AC Power Recovery (Optional : DC Power Recovery)				
Approvals		CE, TUV, Class B, EN50091-2, EN60950-1, FCC part 15, IEC 1000-2-2				
Isolation		Between DC input and AC output with transformer				
Physical						
Dimension : D x H x W (cm)	Tower ▶	49 x 22 x 18		55 x 23 x 18		55 x 30 x 18
	Rack Mount ▶	3U x 47			4U x 51	-
Weight : Net / Gross (Kg)	Tower ▶	19 / 20	23 / 24	31 / 33	43 / 45	44 / 46
	Rack Mount ▶	26 / 30	34 / 38	34 / 38	48 / 51	-

* Specifications are subject to change without prior notice.

Spec. STD.13-02-26



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