

User Manual

IEXTS & IEXTD

Single & Dual Output DC-DC Converters 24 - 60W



General

The IEXTS/... (single output) & IEXTD/... (dual output) are a range of isolated DC/DC converters. Typical input/output options are shown in the model table below.


MODEL CODES												
	IEXTD/.. "A" type outputs				IEXTD/.. "B" type outputs				Single Output (IEXTS/)			
	Input	Output Options			Input	Output Options			Input	Output Options		
	V	V	A	W	V	V	A	W	V	V	A	W
IEXTD(S)/LV- vx/yz	9-18	3.3	5	16	9.4-36	3.3	3.7	12	9-18	3.3	5	16.5
		5	5	25		5	3	15		5	5	25
IEXTD(S)/MV- vx/yz	18-36	12	2.5	30	9.4-36	12	1.2	15	18-36	10	2.5	25
		15	2.0	30		15	1	15		12	2.1	25
IEXTD(S)/HV- vx/yz	36-72	15	2.0	30	18-72	15	1	15	36-72	15	1.7	25
		24	1.25	30		24	1.25	30		30	1.0	30

NOTES

- Single Output:** 2 wires out, eg. **IEXTS/MV-24:** input: 18-36V, output: 24V, 30W
- Dual Output: IEXTD/...**
Output 1 = vx, Output 2 = yz, where:
v = Voutput1, y = Voutput 2, x, z = "A" or "B" type of output
Examples of coding:
 - Dual Output with centre common:** 3 wires out, eg. **IEXTD/LV-12A/12A:** input: 9.4-36V, output: $\pm 12V$, 30W or 24V, 30W
 - Independent Dual Outputs:** 4 wires out, eg. **IEXTD/LV-12B/5A-1:** **Output 1:** input = 9.4-36, output = 12V, 15W
Output 2: input = 9-18V, output = 5V, 25W

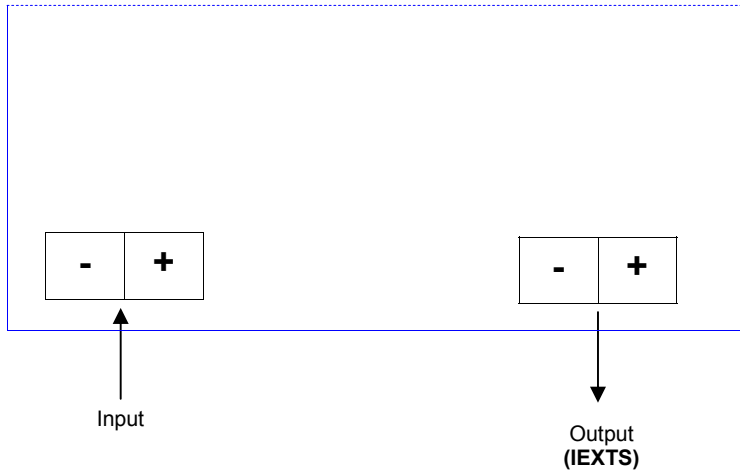
SPECIFICATIONS

All specifications are typical at nominal input, full load and at 20°C unless otherwise stated.

ELECTRICAL		PHYSICAL	
DC Input	Refer to model table	Enclosure	Base: anodised aluminium Cover: black powder coated mild steel
Output	Refer to model table, 3.3 - 30VDC	Dimensions (mm)	180 x 75 x 35H
Power	24 to 60W	Weight	450g (approx.)
Protection	Input: Fuse Output: Short circuit / overload / overvoltage	Mounting	M5 Ø holes 164 x 46 mm, and/or: M3 threaded inserts 164 x 66 mm
Isolation	1KV DC input / output		Suitable for DIN Rail mounting with additional clips, add DINKIT
Efficiency	80 to 85%	Output Connections	Phoenix connector, or flying leads colour coded as per wiring diagrams
Line Regulation	"A" & "B" types: $\pm 1\%$ max IEXTS: $\pm 0.5\%$		
Load Regulation	"A" type $\pm 1\%$ (10-100% load) "B" type $\pm 3\%$ (10-100% load) IEXTS: $\pm 0.5\%$ (10-100% load)		
EMI conduction & radiation	To EN55022/CISPR22 Class B		
Operating temperature	-25 to 70°C		

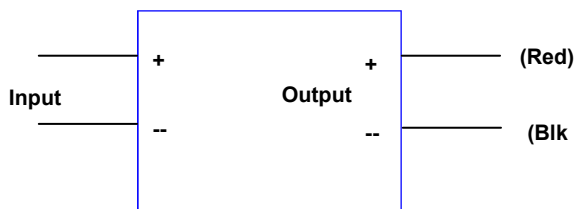
Connections

Terminal Layout

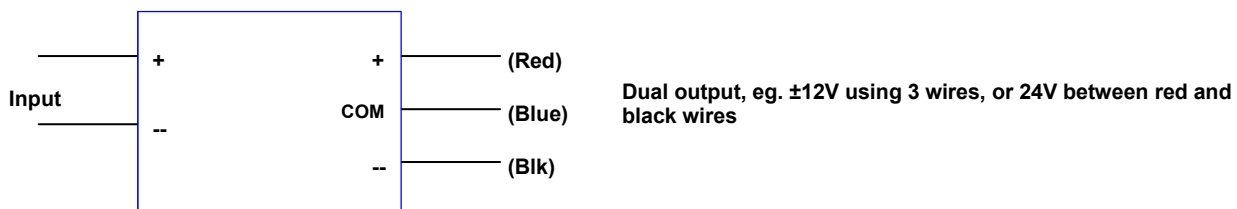


Wiring Diagrams (colour codes for optional flying leads)

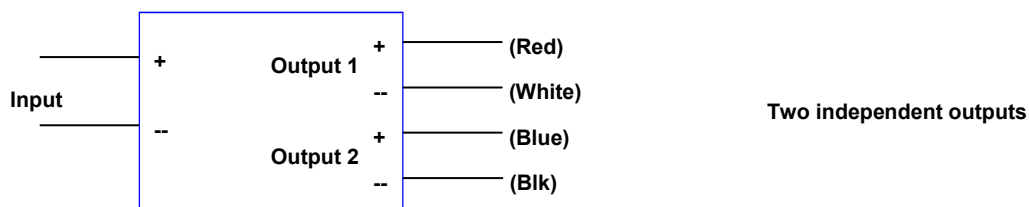
1. Single output, eg. IEXTS/MV-24



2. 3 Wire output, eg. IEXTD/LV-12B/12B, IEXTD/LV-15A/15A



3. 4 Wire output, eg. IEXTD/xV-xxx/xxx-1





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TERMS OF WARRANTY

Innovative Energies Ltd warrants its power supplies for 24 months (two years) from date of shipment against material and workmanship defects.

Innovative Energies' liability under this warranty is limited to the replacement or repair of the defective product as long as the product has not been damaged through misapplication, negligence, or unauthorized modification or repair.

Thank you for purchasing from Innovative Energies.

We trust your power supply will exceed your expectations and perform for years to follow.

Sincerely,
The Innovative Energies team.

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