

Input voltage range up to 75 V DC
 1 or 2 outputs up to 30 V DC
 1500 V DC I/O electric strength test voltage

- Operating case temperature up to 100°C
- Short circuit protection
- Efficiency up to 86%

Selection chart

Output 1		Output 2		Input	Rated power	Efficiency	Type
$U_{o \text{ nom}}$ [V DC]	$I_{o \text{ nom}}$ [mA]	$U_{o \text{ nom}}$ [V DC]	$I_{o \text{ nom}}$ [mA]	U_i [V DC]	$P_{o \text{ tot}}$ [W]	η_{typ} [%]	
3.3	2	-	-	18...36	6	75	IAS 006YE
3.3	2	-	-	34...75	6	75	IAS 0006ZE
5	2	-	-	18...36	10	80	IAS 010YG
5	2	-	-	34...75	10	81	IAS 010ZG
12	1	-	-	18...36	12	85	IAS 012YH
12	1	-	-	34...75	12	85	IAS 012ZH
15	0.8	-	-	18...36	12	86	IAS 015YJ
15	0.8	-	-	34...75	12	86	IAS 015ZJ
+5	1	-5	1	18...36	10	77	IAD 010YGG
+5	1	-5	1	34...75	10	78	IAD 010ZGG
+12	0.5	-12	0.5	18...36	12	82	IAD 012YHH
+12	0.5	-12	0.5	34...75	12	82	IAD 012ZHH
+15	0.4	-15	0.4	18...36	12	83	IAD 015YJJ
+15	0.4	-15	0.4	34...75	12	83	IAD 015ZJJ

Input

Input voltage	continuous range, 24 V	18...36 V DC
	continuous range, 48 V	34...75 V DC
Reverse voltage protection	shunt diode	

Output

Output voltage setting accuracy	$U_{i \text{ nom}}, I_{o \text{ nom}}$	$\pm 1\% U_{o \text{ nom}}$
Minimum load	recommended	10% $I_{o \text{ nom}}$
Line regulation	$U_{i \text{ min}} \dots U_{i \text{ max}}, I_{o \text{ nom}}$, single output models	typ $\pm 0.2\% U_{o \text{ nom}}$
	$U_{i \text{ min}} \dots U_{i \text{ max}}, I_{o \text{ nom}}$, dual output models	typ $\pm 0.5\% U_{o \text{ nom}}$
Load regulation	$U_{i \text{ nom}}, 1 \dots 100\% I_{o \text{ nom}}$, single output models	typ $0.5\% U_{o \text{ nom}}$
	$U_{i \text{ nom}}, 1 \dots 100\% I_{o \text{ nom}}$, dual output models	typ $1\% U_{o \text{ nom}}$
Output voltage switching noise	$U_{i \text{ nom}}, I_{o \text{ nom}}$, peak-peak, total	max $4\% U_{o \text{ nom}}$
Voltage trim range		$\pm 10\% U_{o \text{ nom}}$

Control and protection

Overload protection	shut down, hiccup, single output models	110...140% $I_{O\text{ nom}}$
	shut down, hiccup, dual output models	110...150% $I_{O\text{ nom}}$
Thermal shutdown		105...115°C
Remote shutdown	positive logic	

Safety and EMC

Electric strength test voltage	I/O	1500 V DC
Safety	designed to meet UL, CSA and EN60950	
Electromagnetic interference	conducted	tbd

Environmental

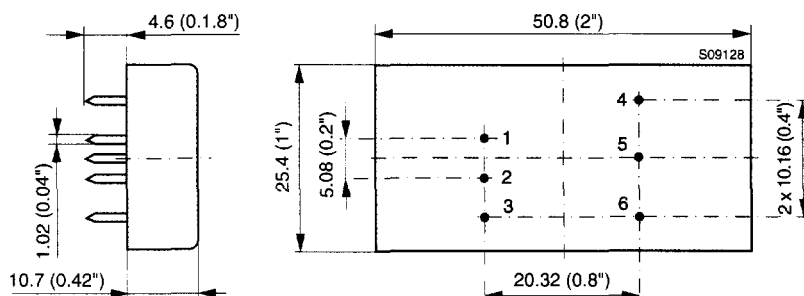
Operating case temperature T_C	$U_{i\text{ nom}}$, $I_{O\text{ nom}}$, single output models	-40...100°C
	$U_{i\text{ nom}}$, $I_{O\text{ nom}}$, dual output models	-40...85°C
Storage temperature	non operational	-40...110°C
Relative humidity	non condensing	95%
MTBF	Bellcore TR-NWT-000332	2'100'000 h

Options

Trim input	-1
Shutdown	-2
Trim and shutdown	-3

Mechanical data

Tolerances ± 0.3 mm (0.012") unless otherwise indicated.

**Pin allocation**

Pin	Single output unit	Dual output unit
1	Vi+	Vi+
2	Vi-	Vi-
3	no pin/Shutdown	no pin/Shutdown
4	Vo+	Vo+
5	no pin/Trim (option)	COM
6	Vo-	Vo-