



o firmě Hypel automatizační technika DC/DC konvertory polovodičová relé ostatní moduly software kompletní ceník

DC/DC konvertory

■ DC/DC konvertory

- DC/DC konvertory CH
- DC/DC konvertory CHS
- DC/DC konvertory CHM
- DC/DC konvertory CHL
- Ceník

■ Dokumentace ke stažení

■ Vstup do E-shopu



DC/DC Convertors CH1 series

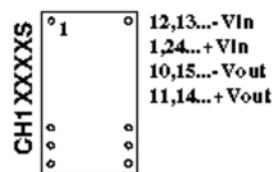
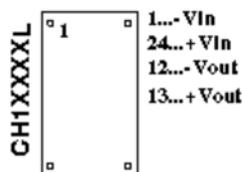
The CH Series is a family of single and dual output low power DC/DC converters in plastic case. These devices are ideally for applications of industrial control systems, medical equipment, measuring instruments etc...

- High voltage accuracy
- High line and load voltage regulation
- Low no load input current
- High isolation voltage
- Low isolation capacitance
- Wide input voltage range
- Low cost
- Needed no external components



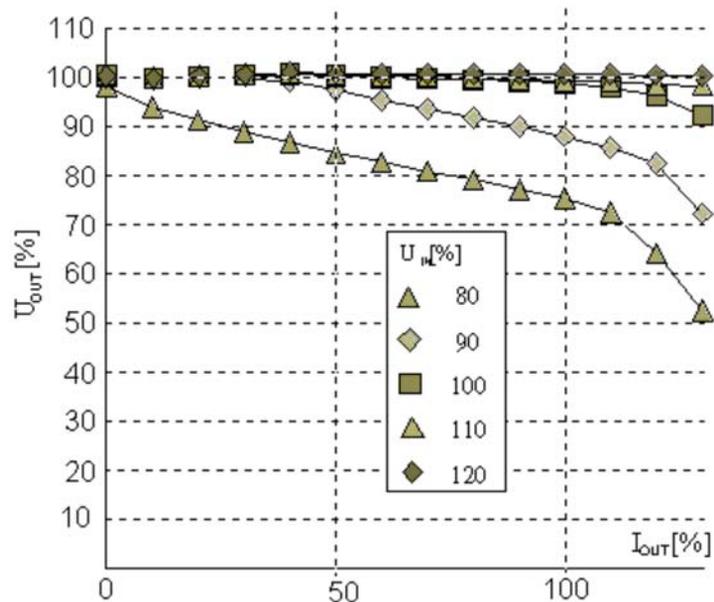
Devices are fabricated in two basic modifications L and S. Pinout of modification S is compatible with other producers parts (micro gisco, TRACO atd...), However in this case is understandably isolation voltage only 500V.

Top view



Models list of CH series DC/DC convertors

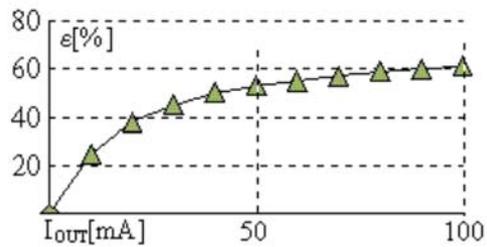
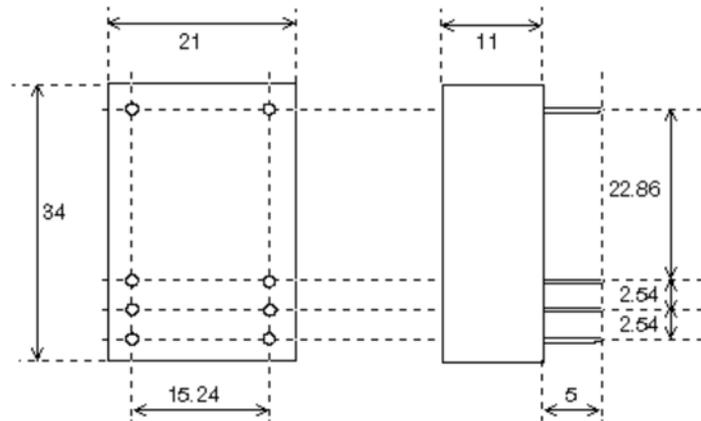
Model	Input voltage [V]	Output voltage [V]	Output current [mA]	Efficiency [%]
CH10505		5	100	60
CH10512	4-6	12	50	63
CH10515		15	40	63
CH11205		5	150	65
CH11212	9-15	12	80	67
CH11215		15	75	67
CH12405		5	200	68
CH12412	18-26	12	100	70
CH12415		15	100	70
CH14805		5	200	68
CH14812	36-52	12	100	70
CH14815		15	100	70



Specifications of CH1 series

Specifications	Conditions	Min	Typ	Max	unit
Output voltage accuracy				0,5	%
Load regulation	U _{IN} =5V, 12V, 24V, 48V I _{OUT} =0...100%		0,2	0,3	%
Line regulation	U _{IN} = -20... +25% no load		0,1	0,2	
Temperature coefficient			150	200	ppm/K
Input current no load	U _{IN} =5V (CH105xx)		23	30	
	U _{IN} =-12V (CH112xx)		15	22	mA
	U _{IN} =24V (CH124xx)		6	10	
	U _{IN} =48V (CH148xx)		13	20	
Ripple and noise (pk-pk)	U _{OUT} =0mA		100	200	mV
	U _{OUT} =100%		50	100	
Isolation voltage	I _{OUT} =0mA	1500	2200		VAC
Isolation capacitance	f=1MHz	25	21		pF
Short circuit protection	U _{IN} =5V, 12V, 24V, 48V			20	s
Operating temperature		-25		+75	C
Relative humidity		5		95	%
Case scale	metric	11 x 21 x 34			mm
	inches	433 x 827 x 1339			mils
Pin scale	metric	4,8	5,0	5,3	mm
	inches	189	197	209	mils
Pin diameter	metric	0,55	0,60	0,65	mm
	inches	22	24	26	mils
Case material weight		Non-conductive black plastic FORSAN (ABS)			
		10	11	12	g
Input filter	Integrated				
Output filter	Single output models	Integrated LC II-type			
	Dual outputs models	Integrated			

Drawing is no to scale. All dimension is in mm



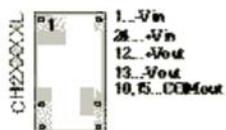
Relationship of efficiency on load current. Tested model of DC/DC converter is CH10505L.

DC/DC Convertors CH2 series

The CH Series is a family of single and dual output low power DC/DC converters in plastic case. These devices are ideally for applications of industrial control systems, medical equipment, measuring instruments etc...

- High voltage accuracy
- High line and load voltage regulation
- Low no load input current
- High isolation voltage
- Low isolation capacitance
- Wide input voltage range
- Low cost
- Needed no external components

Top view



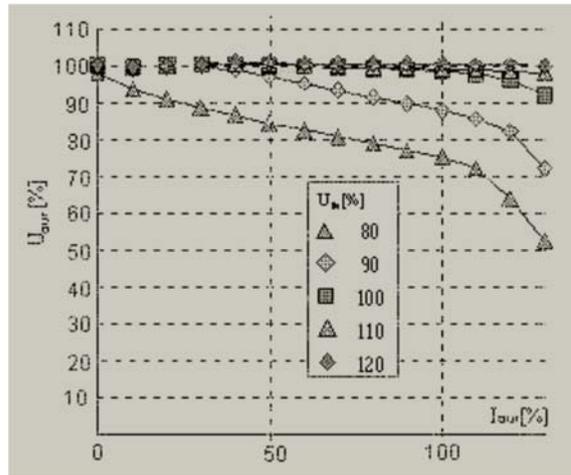
Devices are fabricated in two basic modifications L and S. Pinout of modification S is compatible with other producers parts (micro gisco, TRACO atd...), However in this case is understandably isolation voltage only 500V.

Specifications of CHS series

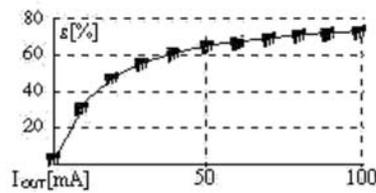
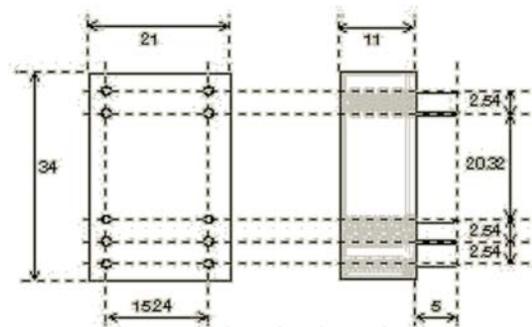
Specifications	Conditions	Min	Typ	Max	unit
Output voltage accuracy				1,5	%
Load regulation	$U_{IN}=5V, 12V, 24V, 48V$		0,3	0,5	
	$I_{OUT}=0...100\%$		0,3	0,5	%
Line regulation	$U_{IN}=-20...+25\%$ no load		0,2	0,3	
Temperature coefficient			200	300	ppm/K
	$U_{IN}=5V$ (CH205xx)		23	30	
Input current no load	$U_{IN}=-12V$ (CH212xx)		15	22	mA
	$U_{IN}=24V$ (CH224xx)		15	20	
	$U_{IN}=48V$ (CH248xx)		15	20	
Ripple and noise (pk-pk)	$U_{OUT}=0mA$		150	250	mV
	$U_{OUT}=100mA$		80	120	
Isolation voltage	$I_{OUT}=0mA$	1500	2200		VAC
Isolation capacitance	$f=1MHz$		21	25	pF
Short circuit protection	$U_{IN}=5V, 12V, 24V, 48V$			20	s
Operating temperature		-25		+75	°C
Relative humidity		5		95	%
Case scale	metric	11 x 21 x 34			mm
	inches	433 x 827 x 1339			mils
Pin scale	metric	4,8	5,0	5,3	mm
	inches	189	197	209	mils
Pin diameter	metric	0,55	0,60	0,65	mm
	inches	22	24	26	mils
Case material		Non-conductive black plastic FORSAN (ABS)			
weight		10	11	12	g
Input filter	Integrated				
Output filter	Single output models	Integrated LC II-type			
Output filter	Dual outputs models	Integrated			

Models list of CH2 series DC/DC convertors

Model	Input voltage [V]	Output voltage [V]	Output current [mA]	Efficiency [%]
CH20505	4-6	+5/-5	50+50	55
CH20512		+12/-12	25+25	58
CH20515		+15/-15	20+20	58
CH21205	9-15	+5/-5	70+70	58
CH21212		+12/-12	40+40	60
CH21215		+15/-15	40+40	60
CH22405	18-26	+5/-5	100+100	65
CH22412		+12/-12	50+50	70
CH22415		+15/-15	50+50	70
CH24805	36-52	+5/-5	100+100	65
CH24812		+12/-12	50+50	70
CH24815		+15/-15	50+50	70



Drawing is no to scale. All dimension is in mm



Relationship of efficiency on load current. Tested model of DC/DC convertor is CH10505L.

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