

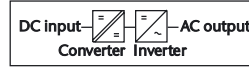
DC/AC Inverters with single phase output

▶ from 200 VA to 10 kVA

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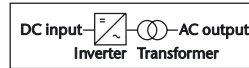
Series CI

is a combination of a switch mode **Converter** and **Inverter** (internal circuit see page 97). The converter provides the isolation between input and output and transforms the voltage to the level needed by the inverter for supplying the specified AC output voltage.



Series IT

is a combination of a switch mode **Inverter** (internal circuit see page 97) and a **Transformer** at the output. The transformer provides the isolation between input and output and transforms the voltage to the required level.



For lower input voltages the CI version is more compact than the IT version.

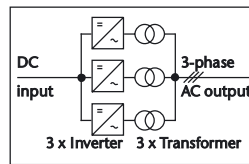
DC/AC Inverters with 3-phase output

▶ from 600 VA to 30 kVA

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Series IV

is a combination of 3 individual switch mode inverters with output transformers synchronized for a symmetrical 3-phase output. The transformers provide the isolation between input and output and transform the voltages to the required levels.



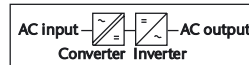
Frequency Converters with single phase output

▶ from 500 VA to 12 kVA

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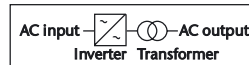
Series CI

is a combination of a switch mode **Converter** and **Inverter** (internal circuit see page 97). The converter provides the isolation between input and output and transforms the voltage to the level needed by the inverter for supplying the specified AC output voltage.



Series IT

is a combination of a switch mode **Inverter** (internal circuit see page 97) with a rectifier at the input and a **Transformer** at the output. The transformer provides the isolation between input and output and transforms the voltage to the required level.



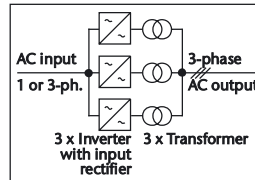
Frequency Converters with 3-phase output

▶ from 1.5 to 36 kVA

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Series IV

is a combination of 3 individual switch mode inverters, each with input rectifier and output transformer, synchronized for a symmetrical 3-phase output. The transformers provide the isolation between input and output and transform the voltages to the required levels.



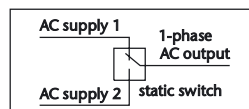
Static Switches

▶ from 800 VA to 10 kVA

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Series SS

provides uninterrupted AC power to a critical load by connecting the load to AC supply 1 which can be the inverter output or to AC supply 2 which can be the mains.

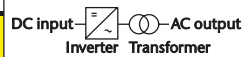


Mechanics	Series CI	Series IT	Series IV
Eurocassette	H15 and high current connector for I > 50 A	H15, high current connector for I > 50 A and F24H7	—
Wall mount	Terminals	Terminals	Terminals
19" plug-in module	Terminals	Terminals	Terminals
19" sub-rack	Terminals	Terminals	Terminals

DC / AC Inverters with I-phase output

Features

- DC input: 10 – 800 V
- AC output: 115 or 230 V or any other output voltage (to be specified)
- 40 – 400 Hz or fixed frequency (crystal stabilized)
- Sine wave
- Continuous short circuit protection
- Thermal shutdown with auto restart for inverters > 1 kVA
- Suitable for complex load
- Surge power capability
- Industrial grade components
- Compact and robust design



Series IT Switch mode inverter and transformer (for isolation and voltage transformation)

Input VDC																Cooling	Output VAC
20–32 VDC	Output kVA	Size	40–64 VDC	50–80 VDC	Output kVA	Size	80–160 VDC	Output kVA	Size	160–320 VDC	340–400 ¹⁾ VDC	340–640 ²⁾ VDC	450–800 ²⁾ VDC	Output kVA	Size		
IT 1626	0.2	A	IT 1636	IT 1646	0.4	A	IT 1656	0.5	A	IT 1676	IT 1686 Z	IT 3676 G	IT 3876 K	0.5	A	115	
			IT 3636	IT 3646	0.5	B	IT 3656	1	B	IT 3676	IT 3686 Z			1	B		
			IT 4836	IT 4846	1.2	D	IT 4856	1.2	C	IT 4876	IT 4886 Z			1.6	C		
				IT 4846	1.2	D	IT 4856	2	D	IT 4876	IT 4886 Z			2.5	D		
				IT 5646	2	E	IT 5656	3	E	IT 5676	IT 5686 Z			5	F+T1		
				IT 5746	3	E	IT 5756	5	F+T1	IT 5776	IT 5786 Z			8	F+T2		
IT 1628	0.2	A	IT 1638	IT 1648	0.4	A	IT 1658	0.5	A	IT 1678	IT 1688 Z	IT 3678 G	IT 3878 K	0.5	A	230	
			IT 3638	IT 3648	0.5	B	IT 3658	1	B	IT 3678	IT 3688 Z			1	B		
			IT 4838	IT 4848	1.2	D	IT 4858	1.2	C	IT 4878	IT 4888 Z			1.6	C		
				IT 4848	1.2	D	IT 4858	2	D	IT 4878	IT 4888 Z			2.5	D		
				IT 5648	2	E	IT 5658	3	E	IT 5678	IT 5688 Z			5	F+T1		
				IT 5748	3	E	IT 5758	5	F+T1	IT 5778	IT 5788 Z			8	F+T2		

☐ = natural convection ☐ = temperature controlled fans



Series CI Switch mode converter (for isolation and voltage transformation) and inverter in one package

Input VDC															Cooling	Output VAC	
10–16 VDC	Output kVA	Size	20–32 VDC	Output kVA	Size	40–64 VDC	50–80 VDC	80–160 VDC	160–320 VDC	320–380 ¹⁾ VDC	320–640 ²⁾ VDC	450–800 ²⁾ VDC	Output kVA	Size			
CI 1606	0.4	G	CI 1626	0.5	G	CI 1636	CI 1646	CI 1656	CI 1676	CI 1686 Z	CI 3676 G	CI 4876 K	0.6	G		115	
CI 4806	0.8	I	CI 3626	1	H	CI 3636	CI 3646	CI 3656	CI 3676	CI 3686 Z			1.2	H			
			CI 4826	1.4	I	CI 4836	CI 4846	CI 4856	CI 4876	CI 4886 Z			1.8	I			
			CI 5626	2	K	CI 5636	CI 5646	CI 5656	CI 5676	CI 5686 Z			CI 5676 G	CI 5676 K			2.4
CI 5706	2	K	CI 5726	3	K	CI 5736	CI 5746	CI 5756	CI 5776	CI 5786 Z	CI 5776 G	CI 5776 K	3.5	K			
CI 1608	0.4	G	CI 1628	0.5	G	CI 1638	CI 1648	CI 1658	CI 1678	CI 1688 Z	CI 3678 G	CI 4878 K	0.6	G		230	
CI 4808	0.8	I	CI 3628	1	H	CI 3638	CI 3648	CI 3658	CI 3678	CI 3688 Z			1.2	H			
			CI 4828	1.4	I	CI 4838	CI 4848	CI 4858	CI 4878	CI 4888 Z			CI 4878 G	1.8			I
			CI 5628	2	K	CI 5638	CI 5648	CI 5658	CI 5678	CI 5688 Z			CI 5678 G	CI 5678 K			2.4
CI 5708	2	K	CI 5728	3	K	CI 5738	CI 5748	CI 5758	CI 5778	CI 5788 Z	CI 5778 G	CI 5778 K	3.5	K			

☐ = natural convection ☐ = temperature controlled fans

Frequency Designation

.0	any external signal (control, ramp) → <i>only for Series CI</i>
.1	40 - 400 Hz adjustable / programmable
.2	45 - 65 Hz adjustable / programmable
.3	any fixed frequency between 40 - 400 Hz
.4	400 Hz
.5	50 Hz
.51	synchronized with 50 Hz mains
.6	60 Hz
.61	synchronized with 60 Hz mains
.7	50/60 Hz switchable

Assistance in table use:

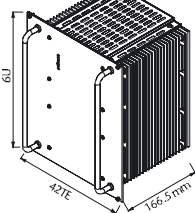
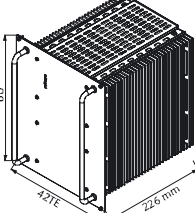
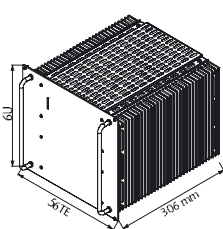
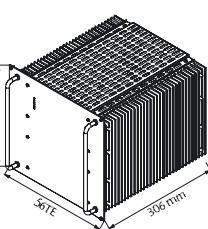
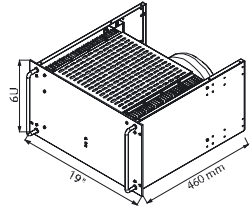
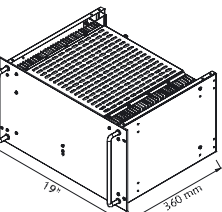
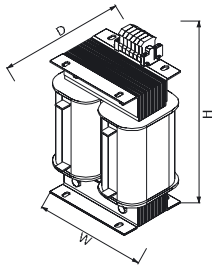
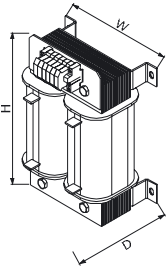
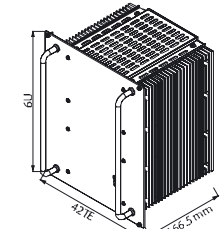
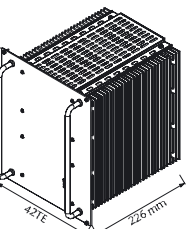
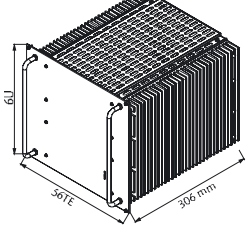
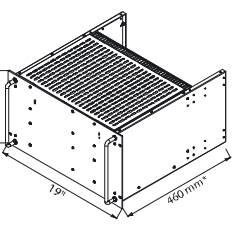
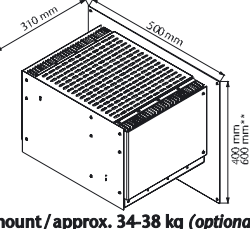
- 1 Select the column for input voltage range.
- 2 Select the row for the appropriate output voltage and power.
- 3 The intersection of both results in the module required.
- 4 Add the required frequency designation to the part number.

For example:

- 1 input voltage = 48 VDC
- 2 output voltage = 230 VAC @ 1.2 kVA
- 3 results in a IT 4838 or CI 3638
- 4 for 50 Hz add .5, e.g. CI 3638.5

¹⁾ input supply from PFC also suitable

²⁾ suited for wall-mount, alternatives upon request

 Size A Eurocassette / approx. 9 kg (pluggable module for 19" sub-rack)	 Size B Eurocassette / approx. 11-13 kg (pluggable module for 19" sub-rack)																																																		
 Size C Eurocassette / approx. 16-18 kg (pluggable module for 19" sub-rack)	 Size D Eurocassette / approx. 18-24 kg (pluggable module for 19" sub-rack)																																																		
 Size E 19" Plug-in module / approx. 46-50 kg	 Size F 19" Plug-in module / approx. 32 kg																																																		
 Size T1 - T3 <table><tr><th>Transformer</th><th>H</th><th>W</th><th>D</th><th>Weight in kg</th></tr><tr><td></td><td colspan="4">in mm</td></tr><tr><td>T1</td><td>390</td><td>240</td><td>233</td><td>33</td></tr><tr><td>T2</td><td>450</td><td>280</td><td>253</td><td>50</td></tr><tr><td>T3</td><td>450</td><td>280</td><td>283</td><td>66</td></tr></table> Transformers refer to 50/60 Hz. Other frequencies or tropical insulation may change size and weight. Standing version	Transformer	H	W	D	Weight in kg		in mm				T1	390	240	233	33	T2	450	280	253	50	T3	450	280	283	66	 Size T1 - T3 <table><tr><th>Transformer</th><th>H</th><th>W</th><th>D</th><th>Weight in kg</th></tr><tr><td></td><td colspan="4">in mm</td></tr><tr><td>T1</td><td>335</td><td>230</td><td>210</td><td>33</td></tr><tr><td>T2</td><td>390</td><td>260</td><td>240</td><td>50</td></tr><tr><td>T3</td><td>390</td><td>260</td><td>270</td><td>66</td></tr></table> Transformers refer to 50/60 Hz. Other frequencies or tropical insulation may change size and weight. Wall mount version	Transformer	H	W	D	Weight in kg		in mm				T1	335	230	210	33	T2	390	260	240	50	T3	390	260	270	66
Transformer	H	W	D	Weight in kg																																															
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T2	450	280	253	50																																															
T3	450	280	283	66																																															
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T1	335	230	210	33																																															
T2	390	260	240	50																																															
T3	390	260	270	66																																															
 Size G Eurocassette / approx. 6 kg (pluggable module for 19" sub-rack)	 Size H Eurocassette / approx. 10 kg (pluggable module for 19" sub-rack)																																																		
 Size I Eurocassette / approx. 18 kg (pluggable module for 19" sub-rack)	 Size K 19" Plug-in module / approx. 28-32 kg (*) less depth upon request																																																		
	 Wall mount / approx. 34-38 kg (optional) (**) applicable for CI 5706, 5708 5726 and 5728																																																		