EX3 inverter

Catalog 2016

Our Business philosophy:

EXE Inverter dedicated for developing, manufacturing and marketing of solar inverters, is one of the leading brands in the solar industry. With high efficiency, top quality, easy installations and convenient after-sales services, EXE Inverters have been running in tens of thousands of residential roofs and commercial PV plants all over the world, including UK, Australia, Germany, Denmark, Holland, Austria, Italy, France, Ukraine, Belgium, Mexico, Sri Lanka, East Asia etc. We are working closely with our global customers to offer them first-class products and services.

Reliable Products

EXE Inverters have a strong emphasis on quality and reliability. Our strict quality control system ensures compliance with ISO9001:2008, grid safety regulation of VDE-AR-N 4105, VDE0126-1-1+A1, AS4777, UTE, ENEL, RD1663, G83/2, G59/2, G59/3, IEC61727, IEC62116, MEA, PEA, NB/T32004-2013, etc. All key components are from brand name suppliers, and every inverter is tested thoroughly before shipment.

Technology Innovation

EXE Inverter highly regards the continuous technology innovation as our core competitiveness. We have an experienced R&D team with profound knowledge of power electronics technology and development. We focus on user experience with various communication options for our solar inverters. We are committed to developing high efficiency, high reliability and best value for money PV inverters to meet the growing and changing market demand.

Global Services

EXE Inverter has a global network and local after sales services.

Technical Data

EXE 1300 SP/1 | EXE 1800 SP/1 | EXE 2300 SP/1
EXE 2700 SP/1 | EXE 3000 SP/1

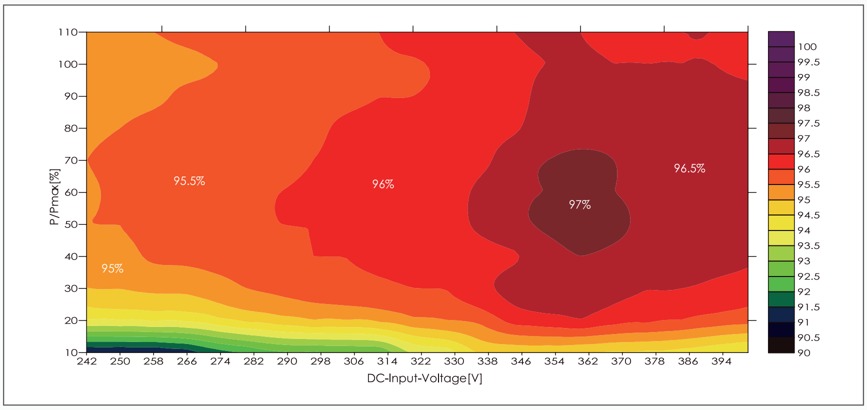
Features

- Maximum effieciency 97,5%
- High efficiency across wide operation range
- Wide range of input DC and MPPT voltage
- Low turn-off DC voltage
- IP65 protection
- DC switch option
- WiFi Modul

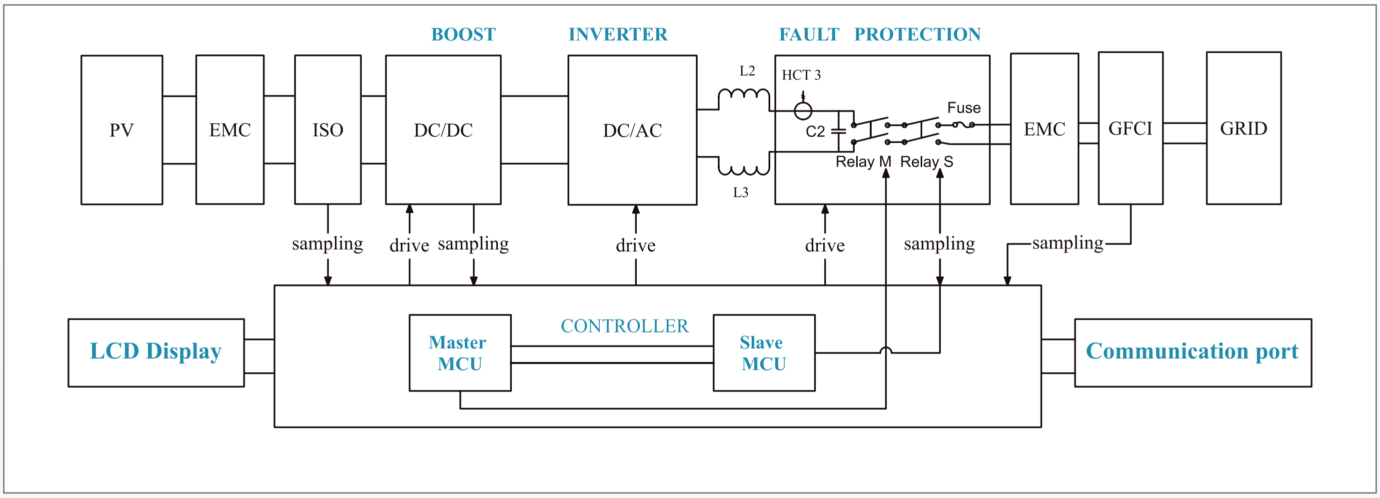
Certificates and Approvals:

CE, NB/T32004-2013 (CQC), VDE AR-N-4105, VDE 0126-1-1 + A1, G83/1, G83/2, G59/2, G59/3, EN50438, AS4777(SAA), CEI 0-21, RD1663; IEC61727, ROHS, REACH

Efficiency curve (EXE 1800SP/1):



Circuit diagram:



EXE Series

EXE 1300SP/1 | EXE 1800SP/1 | EXE 2300SP/1 | EXE 2700SP/1 | EXE 3000SP/1

Model	EXE 1300 SP/1	EXE 1800 SP/1	EXE 2300 SP/1	EXE 2700 SP/1	EXE 3000 SP/1
Rated AC power	1000 W	1500 W	2000 W	2500 W	2800 W
Maximum AC power	1100 VA	1650 VA	2200 VA	2500 VA	3080 VA
Input					
Maximum input power	1300 W	1800 W	2300 W	2700W	3200W
Maximum DC input voltage	500 Vdc	500 Vdc	500 Vdc	500 Vdc	500 Vdc
MPPT operating voltage range	50 – 450 Vdc	70 – 450 Vdc	70 – 450 Vdc	70 – 450 Vdc	70 – 450 Vdc
Startup voltage	50 Vdc	60 Vdc	60 Vdc	60 Vdc	60 Vdc
Initial feeding voltage	60 Vdc	90 Vdc	90 Vdc	90 Vdc	90 Vdc
MPPT number	1	1	1	1	1
Maximum input current	12 Adc	12 Adc	12 Adc	12 Adc	12 Adc
Number of DC inputs	1	1	1	1	1
DC switch	Optional	Optional	Optional	Optional	Optional
Output					
AC voltage	220 / 230 / 240 Vac				
AC phase	Einzelphase				
AC voltage range	180 – 270 V (May vary as per corresponding country's grid standard)				
Frequency range	50 Hz, 60 Hz / -5 Hz … +5 Hz				
Power factor	> 0,99, 0,8 leading…0,8 lagging controllable				
Maximum current	6,0 Aac	8,4 Aac	11,3 Aac	12,8 Aac	15,7 Aac
DC current injection	< 20 mA	< 20 mA	< 20 mA	< 20 mA	< 20 mA
Current Harmonic Distorsion THDi	< 1%	< 1%	< 1%	< 1%	< 1%
System					
Maximum efficiency	> 97,1%	> 97,3%	> 97,3%	> 97,5%	> 97,5%
European efficiency	> 96,5%	> 96,7%	> 96,7%	> 96,9%	> 96,9%
MPPT efficiency	> 99,9%	> 99,9%	> 99,9%	> 99,9%	> 99,9%
Night power consumption	< 0,2 W	< 0,2 W	< 0,2 W	< 0,2 W	< 0,2 W
Topology	Trasformerless				
Heat dissipation	Nature Convection				
Insulation monitoring	Yes				
DC reverse-polarity protection	Yes				
AC over current protection	Yes				
Anti-islanding protection	Yes				
Residual current detection	Yes				
Thermal protection	Yes				
General Parameters					
Dimensions (WxHxD)	380 x 320 x 140 mm				
Weight	12 Kg	13 Kg	13 Kg	13 Kg	13 Kg
Display	LCD 2 x 16 characters				
Function key	1				
Data interface	RS232 / RS485 / RS422 / Ethernet / WiFi / GPRS / USB				
Ambient temperature range	-25° C - +60° C				
Operating altitude	< 2000m				
Protection degree	IP65				
Noise emision	< 30 dB				
Warranty	Standard 5 years, 10/15/20/25 years extension optional				
Certifications					
Safety / EMC	IEC62109-1, IEC62109-2, EN61000-6-2, EN61000-6-3, AS/NZS3100				
Grid code	NB/T32004-2013 (CQC), VDE AR-N-4105, VDE 0126-1-1+A1, G83/1, G83/2, G59/2, G59/3, EN50438, AS4777 (SAA), CEI 0-21, RD1663, IEC61727, UTE C 15-712, MEA, PEA				

Technical data

EX3400 SP/2 | EX4000 SP/2
EX4600 SP/2 | EX5400 SP/2

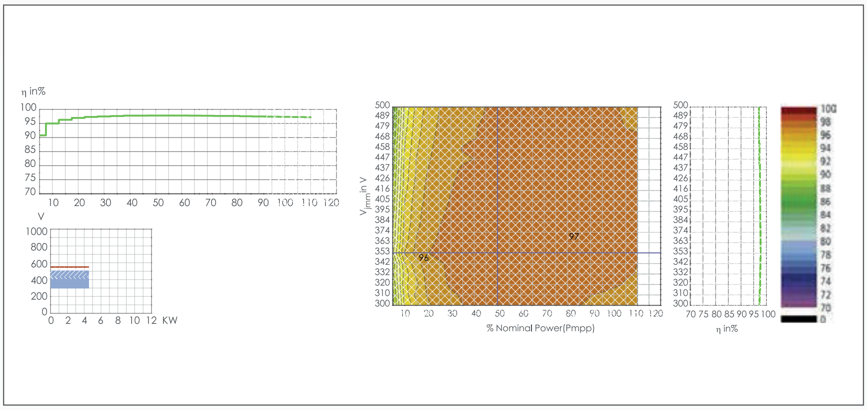
Features

- Maximum efficiency 97,8%
- High efficiency across wide operation range
- Wide range of input DC and MPPT voltage
- Low turn-off DC voltage
- IP65 protection
- Dual independent MPPT input
- DC switch option
- WiFi modul

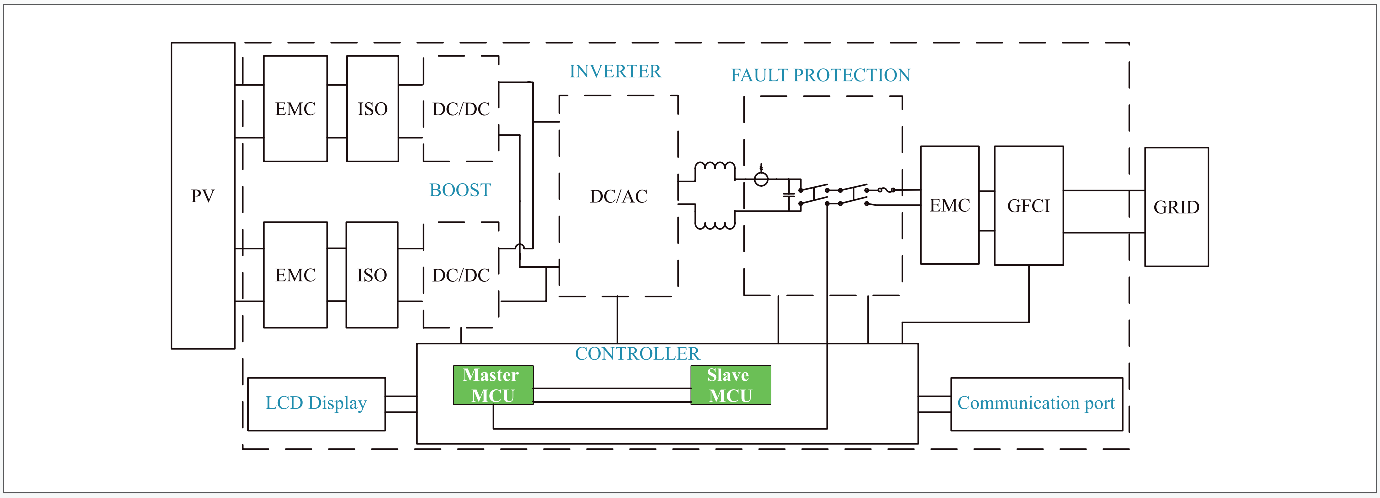
Certificates and approvals:

CE, NB/T32004-2013 (CQC), VDE AR-N-4105, VDE 0126-1-1 + A1, G83/1, G83/2, G59/2, G59/3, EN50438, AS4777(SAA), CEI 0-21, RD1663, IEC61727, ROHS, REACH

Efficiency curve from photon lab (EXE 4600 SP/2):



Circuit diagram:



EXE Series

EXE 3400 SP/2 | EXE 4000 SP/2 | EXE 4600 SP/2 | EXE 5400 SP/2

Model	EXE 3400 SP/2	EXE 4000 SP/2	EXE 4600 SP/2	EXE 5400 SP/2
Rated AC power	3000 W	3680 W	4000 W	4600 W
Maximum AC power	3300 VA	3680 VA	4400 VA	5000 VA
Input				
Maximum input power	3400 W	4000 W	4600 W	5400W
Maximum DC input voltage	580 Vdc	580 Vdc	580 Vdc	580 Vdc
MPPT operating voltage range	90 – 530 Vdc	90 – 530 Vdc	90 – 530 Vdc	90 – 530 Vdc
Startup votlage	90 Vdc	90 Vdc	90 Vdc	90 Vdc
Initial feeding voltage	110 Vdc	110 Vdc	110 Vdc	110 Vdc
MPPT number	2	2	2	2
Maximum input current	12 Adc / 12 Adc	12 Adc / 12 Adc	12 Adc / 12 Adc	12 Adc / 12 Adc
Number of DC inputs	1+1	1+1	1+1	1+1
DC switch	Optional	Optional	Optional	Optional
Output				
AC nominal voltage	220 / 230 / 240 Vac			
AC connection	Einzelphase			
AC voltage Range	180 – 270 V (may vary as per corresponding country's grid standard)			
Frequancy range	50 Hz, 60 Hz / -5 Hz … +5 Hz			
Power factor	> 0,99, 0,8 leading…0,8 lagging controllable			
Maximum output current	16,0 Aac	16,9 Aac	22,5 Aac	26,0 Aac
DC current injection	< 20 mA	< 20 mA	< 20 mA	< 20 mA
THDi	< 1%	< 1%	< 1%	< 1%
System				
Maximum efficiency	> 97,8%	> 97,8%	> 97,8%	> 97,8%
European efficiency	> 96,9%	> 97,3%	> 97,3%	> 97,3%
MPPT efficiency	> 99,9%	> 99,9%	> 99,9%	> 99,9%
Night power consumption	< 0,2 W	< 0,2 W	< 0,2 W	< 0,2 W
Topology	Transformerless			
Heat dissipation	Nature Convection			
Insulation monitoring	Ja			
DC reverse-polarity protection	Ja			
AC over current protection	Ja			
Anti-Islanding protection	Ja			
Residual current detection	Ja			
Thermal protection	Ja			
General Parameters				
Dimensions (WxHxD)	380 x 320 x 140 mm			
Weight	21 Kg	21 Kg	21 Kg	21 Kg
Display	LCD 2 x 16 characters			
Function key	1	1	1	1
Data interface	RS232 / RS485 / RS422 / Ethernet / WiFi / GPRS / USB			
Ambient temperature range	-25° C - +60° C			
Operating altitude	< 2000m			
Protection degree	IP65			
Noise emision	< 30 dB			
Warranty	Standard 5 years, 10/15/20/25 years extension optional			
Certifications				
Safety / EMC	IEC62109-1, IEC62109-2, EN61000-6-2, EN61000-6-3, AS/NZS3100			
Grid code	NB/T32004-2013 (CQC), VDE AR-N-4105, VDE 0126-1-1+A1, G83/1, G83/2, G59/2, G59/3, EN50438, AS4777 (SAA), CEI 0-21, RD1663, IEC61727, UTE C 15-712, MEA, PEA			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