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authorized distributor for photovoltaic systems

## **Retail-Pricelist 4/2013**

# pricelist 4/2013



We are pleased to hand over our latest price list. On the listed prices we will grant a discount for specialized worksmen and specialized dealers. ( all prices are net prices plus VAT )

Please do not hesitate to contact our sales staff.

your discounts		>10kWp	>25kWp	>50kWp	>100kWp
PV-modules from LG Electronics	29,00%	34,50%	35,00%	35,50%	36,00%
PV-modules from JA Solar	29,00%	34,50%	35,00%	35,50%	36,00%
PV-modules from Q-Cells	24,00%	34,50%	35,00%	35,50%	36,00%
Energy Storage-System by NEDAP	24,00%				
Energy Storage-System by SMA	23,00%				
Solarbatteries by BAE	20,00%				
Solarbatteries by AKASOL	20,00%				
CarPort Rack-System	15,00%				
inverters from SMA	24,00%				
inverters from Kaco	23,00%				
inverters from Fronius	23,00%				

**For individual discount-agreements (depending on quantities) please turn to our sales staff !**

## Terms of delivery:

Ex works

## Terms of payment

A) 30% prepayment after order, 70% 8 days after delivery  
(in case of positive credit-worthiness of the customer in terms of credit line \*)

B) alternatively:

30% prepayment after order, 70% cash in advance (payment receipt 5 days before scheduled delivery)

## Advance Payment Guarantee (Bayerische Landesbank)

On request and in case of agreement to cover costs you will receive a bank guarantee for all advance payments.

\*

Concerning deliveries based on credit basis/term of credit, we insure all our customers via Hermes commercial credit insurance as a protection against loss of accounts receivable. The there for mentioned terms of payment are only valid with a positive insurance cover to the amount of the order total. In this connection no costs or expenditures will arise for the client. We ask you for your understanding. Possibly specified delivery dates are only valid with reservations, an assured delivery time promise can only be contemplated after we received binding order confirmation from our manufacturers/suppliers. We also reserve the right to pass list prices changes of our manufacturers/suppliers - even after conclusion of contract- to our customers. In case of increasing prices the customer has the right to cancel the order. Our general conditions of sale and delivery are valid.

For exports to another country in the EU no VAT will be charged (tax-free intra-Community supply) if the industrial users in the receiving country makes a sales tax at the rate of the destination country. The existence of this condition is assumed if the recipient's VAT number is forwarded to SP4U. Through this destination principle taxation is shifted in the way of intra-Community acquisition into the recipient country. If SP4U has the VAT not on hand or the examination of the VAT number by SP4U has not a positive result the billing will be done with the VAT applicable in Germany.

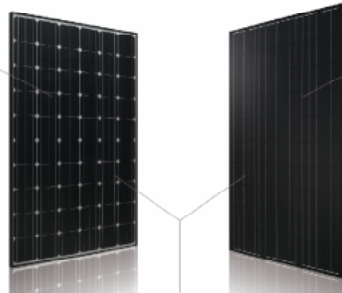
In terms of improvement of delivery time, SolarPanels4u reserves the option, regarding orders for photovoltaic modules, after consultation and agreement of the customer, to deliver even different types of engine-power-classes, as the ordered and confirmed type of modules. This can lead to extra costs in case of higher engine-power class. If the customer cancels the order or parts of it, SolarPanels4u will charge a cancellation fee for stock items to the amount of 10 % of the net order total amount. For no stock items there can even occur higher costs. In case of customers default of acceptance, SolarPanels4u is authorized to withdraw from the contract, after expiration of an allotted and adequate deadline, settled by SolarPanels4u.

# Photovoltaic Modules

pricelist 4/2013



MonoX™ MonoX™ Black



Major power class

your contition:  
**your discount: 29,00%**  
 Ihr max.Skto: 0%

**Art.No. description**

**List price**  
plus VAT

## framed crystalline photovoltaic modules from LG Electronics

11260	<b>PV-Modul LG Mono X, Typ LG260S1C-G3, 260Wp (+3/-0%)</b> lxb: 1640x1000mm,35mm Alu-frame,cable connection with MC4-plug & -connector Umpp 31,2V - Impp 8,35A - Uoc 38,6V - Isc 8,82A - weight: 16,8kg Tk(Uoc) -0,343%/°C - TK Pmpp -0,459%/°C	<b>305,00 EUR</b> >10kWp >25kWp >50kWp >100kWp
11265	<b>PV-Modul LG Mono X, Typ LG265S1C-G3, 265Wp (+3/-0%)</b> lxb: 1640x1000mm,35mm Alu-frame,cable connection with MC4-plug & -connector Umpp 31,4V - Impp 8,46A - Uoc 38,7V - Isc 8,92A - weight: 16,8kg Tk(Uoc) -0,343%/°C - TK Pmpp -0,459%/°C	<b>319,00 EUR</b> >10kWp >25kWp >50kWp >100kWp
11252	<b>PV-Module LG Mono X BLACK, Typ LG250S1K-G2, 250Wp (+3/-0%)</b> lxb: 1640x1000mm,35mm Alu-frame,cable connection with MC4-plug & -connector Umpp 30,8V - Impp 8,13A - Uoc 38,3V - Isc 8,62A - weight: 16,8kg Tk(Uoc) -0,325%/°C - TK Pmpp -0,445%/°C	<b>289,00 EUR</b> >10kWp >25kWp >50kWp >100kWp

## The latest High-End-Module: LG Mono X NeoN ( N-type wafers and Double-sided Cell structure ):

11290	<b>PV-Module LG Mono X NeoN, Typ LG290N1C-G3, 290Wp (+3/-0%)</b> lxb: 1640x1000mm,35mm Alu-frame,cable connection with MC4-plug & -connector Umpp 31,8V - Impp 9,19A - Uoc 39,2V - Isc 9,8A - weight: 16,8kg Tk(Uoc) -0,31%/°C - TK Pmpp -0,42%/°C	<b>392,00 EUR</b> >10kWp >25kWp >50kWp >100kWp
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### Manufacturers-

**guarantees:** 10 year product warranty, 25 year linear decreasing power output guarantee on 80,2% P<sub>nnn</sub> (min) (see manufacturer's conditions)

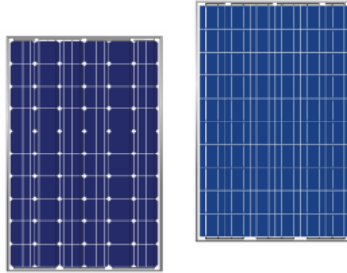
Subject to change - errors and omissions excepted

# Photovoltaic Modules

pricelist 4/2013



**JA SOLAR**



your condition:	
your discount:	<b>29,00%</b>
lhr max.Skto:	0%

Major power class

**Art.Nr.      Beschreibung**

**List price**  
plus VAT

framed crystalline photovoltaik modules from **JA Solar**

**14250      PV-Module JA Solar, Typ JAP6-60 (Poly), 250Wp (+5/-0W)**  
lxb: 1650x991mm, mit 40mm Alu-frame, cable with MC4-compatible connector & -plug  
Umpp 29,98V - Impp 8,34A - Uoc 37,54V - Isc 8,84A - weight: 18,5kg  
Tk(Uoc) -0,33 %/°C - TK Pmpp -0,45%/°C

<b>243,00 EUR</b>
>10kWp
>25kWp
>50kWp
>100kWp

**14260      PV-Module JA Solar, Typ JAM6-60 (Mono), 260Wp (+5/-0W)**  
lxb: 1650x991mm, mit 40mm Alu-frame, cable with MC4-compatible connector & -plug  
Umpp 30,98V - Impp 8,39A - Uoc 38,24V - Isc 8,76A - weight: 18,5kg  
Tk(Uoc) -0,34 %/°C - TK Pmpp -0,43%/°C

<b>272,00 EUR</b>
>10kWp
>25kWp
>50kWp
>100kWp

**14265      PV-Module JA Solar, Typ JAM6-60 (Mono), 265Wp (+5/-0W)**  
lxb: 1650x991mm, mit 40mm Alu-frame, cable with MC4-compatible connector & -plug  
Umpp 31,24V - Impp 8,48A - Uoc 38,38V - Isc 8,8A - weight: 18,5kg  
Tk(Uoc) -0,34 %/°C - TK Pmpp -0,43%/°C

<b>282,00 EUR</b>
>10kWp
>25kWp
>50kWp
>100kWp

**guarantees:** 10 year product warranty, 25 year linear decreasing power output guarantee (see manufacturer´s conditions)

Subject to change - errors and omissions excepted

# Photovoltaic Modules

pricelist 4/2013



Poly

Mono



## Q CELLS

Hanwha Q-Cells GmbH

your condition:	
your discount:	<b>29,00%</b>
lhr max.Skto:	0%

Art.No. description

List price  
plus VAT

### Major power class

#### Framed crystalline photovoltaic modules from Hanwha Q-Cells

15255	<b>PV-Modul Q CELLS Poly Q.PRO-G3, 255Wp ( +5/-0W )</b> lxb: 1670x1000x35mm, with alu frame, cable with connector & -plug Umpp 30,04V - Impp 8,57A - Uoc 37,99V - Isc 9,03A - weight 19kg - Tk(Uoc) -0,33 %/°C	<b>279,00 EUR</b> >10kWp >25kWp >50kWp >100kWp
15260	<b>PV-Modul Q CELLS Poly Q.PRO-G3, 260Wp ( +5/-0W )</b> lxb: 1670x1000x35mm, with alu frame, cable with connector & -plug Umpp 30,18V - Impp 8,7A - Uoc 38,21V - Isc 9,12A - weight 19kg - Tk(Uoc) -0,33 %/°C	<b>292,00 EUR</b> >10kWp >25kWp >50kWp >100kWp
15266	<b>PV-Modul Q CELLS Mono Q.PEAK-G3, 265Wp ( +5/-0W )</b> lxb: 1670x1000x35mm, with alu frame, cable with connector & -plug Umpp 30,88V - Impp 8,66A - Uoc 38,3V - Isc 9,23A - weight 19kg - Tk(Uoc) -0,33 %/°C	<b>311,00 EUR</b> >10kWp >25kWp >50kWp >100kWp
15270	<b>PV-Modul Q CELLS Mono Q.PEAK-G3, 270Wp ( +5/-0W )</b> lxb: 1670x1000x35mm, with alu frame, cable with connector & -plug Umpp 31,16V - Impp 8,74A - Uoc 38,67V - Isc 9,28A - weight 19kg - Tk(Uoc) -0,33 %/°C	<b>321,00 EUR</b> >10kWp >25kWp >50kWp >100kWp
15205	<b>PV-Modul Q CELLS Mono Q.PEAK S-G3, 205Wp (+5/-0W)</b> lxb: 1348x1000x35mm, with alu frame, cable with connector & -plug Umpp 24,33V - Impp 8,53A - Uoc 30,15V - Isc 9,14A - weight 15,5kg - Tk(Uoc) -0,33 %/°C	<b>268,00 EUR</b> >10kWp >25kWp >50kWp >100kWp

#### Manufacturers-

**guarantees:** 12 year product warranty, 25 year linear decreasing power output guarantee on 83% Pnenn (min) (see manufacturer's conditions)

Subject to change - errors and omissions excepted

# Energy-Storage-System by Nedap

pricelist 4/2013



## Nedap PowerRouter

for enhanced self-consumption - Solar Power even in the event of grid-failure

your condition:	
your discount:	24,00%

### Art.No. description

List price  
plus VAT

#### PowerRouter Solar Battery - self-use ( PV-inverter und Batterymanager in one device ) incl. 1-Phase-sensor

61030	3kW PowerRouter Solar Battery - self-use	3.395,00 €
61037	3,7kW PowerRouter Solar Battery - self-use	3.845,00 €
61050	5kW PowerRouter Solar Battery - self-use	4.745,00 €

#### PowerRouter Solar Inverter ( PV-Inverter - Upgradeable with Batterymanager )

61130	3kW PowerRouter Solar Inverter	1.645,00 €
61137	3,7kW PowerRouter Solar Inverter	1.895,00 €
61150	5kW PowerRouter Solar Inverter	2.245,00 €

#### PowerRouter Batterymanager Expansion-Unit ( to upgrade a PR Solar Inverter )

61230	3kW Battery Manager - Expansion Unit	1.795,00 €
61237	3,7kW Battery Manager - Expansion Unit	1.995,00 €
61250	5kW Battery Manager - Expansion Unit	2.495,00 €

#### Equipment

61301	1-Phase Sensor for Energy-Monitoring ( for dynamic feed-in control )	75,00 €
61302	3-Phase Sensor for Energy-Monitoring ( for dynamic feed-in control )	290,00 €
61303	External Contactor for devicemanagement, and self-cunsumption with backup-supply	250,00 €
xxxxx	Solarbattery ( see BAE-Batteries )	

#### Warranty-extention ( see manufacturer´s conditions ):

61310	Warranty Extention from 5 upto 10years for PR -Inverters	450,00 €
61311	Warranty Extention from 5 upto 10years for PR -Solar Battery	690,00 €

Manufacturer´s guarantee 5 years product warranty,for an extra charge upto 10 years expandable ( see manufacturer´s conditions )

# Energy-Storage-System by SMA

pricelist 4/2013



## SUNNY Island

for enhanced self-consumption - Solar Power even in the event of grid-failure

your condition:	
your discount:	23,00%

Art.No. description

List price  
plus VAT

## SUNNY Island

60052	<b>Sunny Island 6.0 (SI6.0H-11)</b> Bidirectional Battery-Inverter , maximum AC Power for 30 min. 6,0kW, Rated AC Power 4,6kW, Batteryvoltage: 48V, external Batterysensor, incl. Control-Unit Sunny Remote Control	3.258,00 EUR
40356	<b>Sunny Home Manager with Bluetooth ( HM-BT-10 )</b> the control center for smart energy management	350,00 EUR
60xxx	<b>Speedwire Interface für Sunny Island 6.0</b> for communication with the Sunny Home Manager	138,00 EUR
xxxxx	<b>Batfuse B.01</b> ( not necessary when using BAE SUN Depot )	on request
40363	<b>SMA D0 reading-head</b> Adapter for reading an optical meter interface with a 4-pin connector	66,00 EUR

### Additional Equipment Needed:

- BAE SUN Depot, z.B. Type 48 - 210 ( see Solarbatteries )
- PV-System with PV-Inverter(s)  
( if dynamic inverter control via Home Manager required ==> SMA-Inverter )
- D0- oder S0- meter
- Installationmaterial like Fuses
- Internet connection



\*Backup/Islandfunction available in autumn of 2013 (retrofit)

Subject to change - errors and omissions excepted



# Solarbatteries by BAE

pricelist 4/2013



**THE BAE SunDepot**  
for Sunny Island and Nedap PowerRouter-Systems

your condition:	
your discount:	20,00%

**Art.No. description**

**List price  
plus VAT**

## The SunDepot for Sunny Island - Systems ( 48V )

60421 **BAE SUN Depot 48 - 210 ( 1 level )**  
Battery-Unit 48V DC, 210 Ah, storagecapacity 10,08 kWh  
incl. modern Solarbatterytechnology Valve regulated Lead-Acid (VRLA), inkl. Cabinet-kit  
and NH 001 Fuseholder ( recommended fuse = 250A )  
( fuse not included )



3.383,00 EUR

60428 **BAE SUN Depot 48 - 280 ( 2 levels )**  
Battery-Unit 48V DC, 280 Ah, Storagecapacity 13,44 kWh

4.741,00 EUR

60435 **BAE SUN Depot 48 - 350 ( 2 levels )**  
Battery-Unit 48V DC, 350 Ah, Storagecapacity 16,8 kWh

5.392,00 EUR

60442 **BAE SUN Depot 48 - 420 ( 2 levels )**  
Battery-Unit 48V DC, 420 Ah, Storagecapacity 20,16 kWh

5.831,00 EUR

## The SunDepot for Nedap PowerRouter - Systems ( 24V )

60412 **BAE SUN Depot 24 - 280 ( 1 level )**  
Battery-Unit 24V DC, 280 Ah, Storagecapacity 6,72 kWh

2.636,00 EUR

60413 **BAE SUN Depot 24 - 350 ( 1 level )**  
Battery-Unit 24V DC, 350 Ah, Storagecapacity 8,4 kWh

2.952,00 EUR

60414 **BAE SUN Depot 24 - 420 ( 1 level )**  
Battery-Unit 24V DC, 420 Ah, Storagecapacity 10,08 kWh

3.171,00 EUR

**Battery cable:** (should be reduced on 2m when used with the Nedap Power Router (24V) )

60405 **BAE Battery cable 70mm<sup>2</sup>, red, 1 x 3 m**

79,00 EUR

60406 **BAE Battery cable 70mm<sup>2</sup>, blue, 1 x 3 m**

79,00 EUR

( Battery manufacturer: BAE Batteries - Berlin/Germany )



# Solarbatteries by AKASOL

pricelist 4/2013



High Performance Battery Systems

**Lithium-Ion-Energy-Storage-Unit ( MADE IN GERMANY )**  
for Sunny Island and Nedap PowerRouter-Systems



your condition:	
your discount:	15,00%

Art.Nr.

List price  
plus VAT



60506 **neoQube Energy-Storage-Unit**  
Lithium-Ion Battery-Unit 24/48V DC, Storagecapacity 5,5 kWh  
Performance nom. 5kW, max.(10s) 15kW, 456x280x456mm, weight 52kg  
more than 3000 cycles @ 80% DoD, up to 80% residual capacity;  
up to 98% efficiency

8.850,00 EUR



60511 **neoSystem Typ 2**  
flexible and scalable Lithium-Ion Battery 48V DC, Storagecapacity 11 kWh  
incl. neoRacks , RackManager, CAN-Router,  
Battery connection-box

60518 **neoSystem Typ 3**  
flexible and scaleable Lithium-Ion Battery 48V DC, Storagecapacity 17,5 kWh

60522 **neoSystem Typ 4**  
flexible and scaleable Lithium-Ion Battery 48V DC, Storagecapacity 22 kWh

60528 **neoSystem Typ 5**  
flexible and scaleable Lithium-Ion Battery 48V DC, Storagecapacity 27,5 kWh

60533 **neoSystem Typ 6**  
flexible and scaleable Lithium-Ion Battery 48V DC, Storagecapacity 33 kWh

22.925,00 EUR

32.950,00 EUR

44.245,00 EUR

54.100,00 EUR

64.000,00 EUR

Manufacturer's guarantee: 10 years ( see manufacturer's conditions )

Subject to change - errors and omissions excepted

**Hessian State Award  
for Intelligent Energy 2012**  
Category Energy Storage

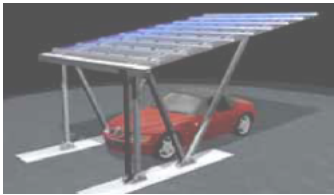


# Rack Systems - Carports

pricelist 4/2013



## MONO



## DUO



your condition:	
your discount:	16,00%

Art.No. description

List price  
plus VAT

### Standardized Carport-Kits for private users

optimal complete unit-assembly system and mounting instruction; design, reinforcement concept and LGA-design structural analysis included, roof inclination = 10° = optimized for different alignments;

(Foundations are to be provided by the customer according to the design structural analysis)

175000-009	<b>Mono-Carport 009 for 1 parking space</b> for 9 PV-modules a´ ca. 1650 x 990 mm, 3 x 3 Modules vertikal, a = 3,1m, b = 5,11m	2.428,60 EUR
175000-011	<b>Mono-Carport 011 for 1 parking space</b> for 9 PV-modules a´ ca. 1700 x 1000 mm, 3 x 3 Modules vertikal, a = 3,13m, b = 5,26m	2.387,86 EUR
175000-010	<b>Duo-Carport 010 for 2 parking spaces</b> for 15 PV-modules a´ ca. 1650 x 990 mm, 3 x 5 Modules vertikal, a = 5,22m, b = 5,11m	3.855,49 EUR
175000-012	<b>Duo-Carport 012 for 2 parking spaces</b> for 15 PV-modules a´ ca. 1700 x 1000 mm, 3 x 5 Modules vertikal, a = 5,27m, b = 5,26m	3.816,07 EUR
175001-019	Eaves guttering AR ( right downspout ) for Mono-Carport 009	295,32 EUR
175001-020	Eaves guttering AL ( left downspout ) for Mono-Carport 009	295,32 EUR
175001-021	Eaves guttering AR ( right downspout ) for Mono-Carport 011	296,51 EUR
175001-022	Eaves guttering AL ( left downspout ) for Mono-Carport 011	296,51 EUR
175001-001	Eaves guttering AR ( right downspout ) for Duo-Carport 010/012	362,03 EUR
175001-002	Eaves guttering AL ( left downspout ) for Duo-Carport 010/012	362,03 EUR



Subject to change - errors and omissions excepted

# Inverters ( SMA )

pricelist 4/2013



your condition:  
your discount: **23,00%**

Art.No.	description		List price plus VAT
<b>SMA inverters with LC-Display, one phase output (AC)</b>			
40113	Sunny Boy 1300 TL-10 / trafolos, Pac,r 1,3kW; Sac,max. 1,3kVA	$\eta(\text{max})96\%$	750,00 EUR
40116	Sunny Boy 1600 TL-10 / trafolos, Pac,r 1,6kW; Sac,max. 1,6kVA	$\eta(\text{max})96\%$	800,00 EUR
40120	Sunny Boy 2000 HF-30 / Pac,r 2kW; Sac,max. 2kVA	$\eta(\text{max})>96\%$	1.103,00 EUR
40121	Sunny Boy 2100 TL / trafolos, Pac,r 1,95kW; Sac,max. 2,1kVA	$\eta(\text{max})96\%$	920,00 EUR
40126	Sunny Boy 2500 HF-30 / Pac,r 2,5kW; Sac,max. 2,5kVA	$\eta(\text{max})>96\%$	1.182,00 EUR
40131	Sunny Boy 3000 HF-30 / Pac,r 3kW; Sac,max. 3kVA	$\eta(\text{max})>96\%$	1.260,00 EUR
40525	Sunny Boy 2500 TLST-21 / trafolos Pac,r 2,5kW; Sac,max. 2,5kVA	$\eta(\text{max})97\%$	1.207,00 EUR
40529	Sunny Boy 3000 TLST-21 / trafolos, Pac,r 3kW; Sac,max. 3kVA	$\eta(\text{max})97\%$	1.268,00 EUR
40530	Sunny Boy 3000 TL-21 / trafolos, Multistr. Pac,r 3kW; Sac,max. 3kVA	$\eta(\text{max})97\%$	1.293,00 EUR
40536	Sunny Boy 3600 TL-21 / trafol., Multistr., Pac,r 3,68kW; Sac,max. 3,68kVA	$\eta(\text{max})97\%$	1.313,00 EUR
40540	Sunny Boy 4000 TL-21 / trafolos, Multistr., Pac,r 4kW; Sac,max. 4kVA	$\eta(\text{max})97\%$	1.379,00 EUR
40550	Sunny Boy 5000 TL-21 / trafol., Multistr., Pac,r 4,6kW; Sac,max. 4,6kVA	$\eta(\text{max})97\%$	1.576,00 EUR
<b>SMA inverters with 3-phase output (AC)</b>			
40095	Sunny Tripower 5000 TL-20 / trafol., Pac,r 5kW; Sac,max. 5kVA	$\eta(\text{max})98,1\%$	1.817,00 EUR
40096	Sunny Tripower 6000 TL-20 / trafol., Pac,r 6kW; Sac,max. 6kVA	$\eta(\text{max})98,1\%$	2.023,00 EUR
40097	Sunny Tripower 7000 TL-20 / trafol., Pac,r 7kW; Sac,max. 7kVA	$\eta(\text{max})98,1\%$	2.194,00 EUR
40098	Sunny Tripower 8000 TL-20 / trafol., Pac,r 8kW; Sac,max. 8kVA	$\eta(\text{max})98,1\%$	2.331,00 EUR
40099	Sunny Tripower 9000 TL-20 / trafol., Pac,r 9kW; Sac,max. 9kVA	$\eta(\text{max})98,1\%$	2.468,00 EUR
40101	Sunny Tripower 10000 TL-10 / trafol., Pac,r 10kW; Sac,max. 10kVA	$\eta(\text{max})98,1\%$	3.313,00 EUR
40102	Sunny Tripower 12000 TL-10 / trafol., Pac,r 12kW; Sac,max. 12kVA	$\eta(\text{max})98,1\%$	3.161,00 EUR
40105	Sunny Tripower 15000 TL-10 / trafol., Pac,r 15kW; Sac,max. 15kVA	$\eta(\text{max})98,2\%$	3.668,00 EUR
40106	Sunny Tripower 17000 TL-10 / trafol., Pac,r 17kW; Sac,max. 17kVA	$\eta(\text{max})98,2\%$	3.941,00 EUR
40108	Sunny Tripower 20000 TLEE-10 / trafol., Pac,r 20kW; Sac,max. 20kVA	$\eta(\text{max})98,5\%$	3.980,00 EUR

Manufacturer's guarantee: 5 years product warranty, for an extra charge upto 10 years expandable ( see manufacturer's conditions )

Subject to change - errors and omissions excepted

# Equipment for Inverters (SMA)

pricelist 4/2013



your condition:	
your discount:	<b>23,00%</b>

Art.No.	description	List price plus VAT
<b>Service products</b>		
40225	<b>USB-Service-Interface</b> with 1,5m cable and USB-port for PC-link	123,00 EUR
40xxx	<b>SMA Grid-Gate-20 for Italy</b> (centr.grid and pv-system protection, connection f.2 relays)	481,00 EUR
<b>Interface for Sunny Boy Inverters</b>		
402xx	<b>RS485-port for SB + SMC</b> ( retrofit kit) ( except HF-device, 3000+4000+5000TL, Tripower-device)	81,00 EUR
40209	<b>RS485-port for SB 3000TL,4000TL, 5000 TL and Tripower-device</b> ( retrofit kit )	91,00 EUR
40249	<b>RS485-Quick-module for SB 2000HF,2500HF u. 3000HF</b> ( retrofit kit )	91,00 EUR
<b>Equipment Sunny Boy Inverters</b>		
40210	earthing set for negative earthing of the DC-input ( ESHV-N-NR ) only for appliances with transformers	66,00 EUR
<b>Warranty period extention from 5 upto 10 years</b> ( see manufacturer´s conditions)		
40273	for Sunny Boy 700 - 3800 ( 0kW - < 4kW )	
40274	for SB / SMC / STP ( 4kW - < 9kW )	
40275	for SMC / STP ( 9kW - < 12kW )	
40276	for SMC / STP ( 12kW - < 20kW )	
<b>Warranty period extention from 5 upto 20 years</b> (see manufacturer´s conditions )		
40283	for Sunny Boy 700 - 3800 ( 0kW - < 4kW )	
40284	for SB / SMC / STP ( 4kW - < 9kW )	
40285	for SMC / STP ( 9kW - < 12kW )	
40286	for SMC / STP ( 12kW - < 20kW )	
<b>Sunny Web-Box</b> -central data collection- a. diagnose unit for communication with (at present free of charge) Internet-form of expression "Sunny Portal" SMA		
40361	<b>Sunny Web-Box Bluetooth Wireless-Technology / Ethernet</b>	444,00 EUR
40261	<b>Sunny Web-Box Ethernet / RS485</b> inkl. Ethernet port, RS485 to inverter	489,00 EUR
40262	<b>Sunny Web-Box Ethernet + Analog / RS485</b> inkl. Ethernet port, Analog-Modem, RS485 to inverter	572,00 EUR
40263	<b>Sunny Web-Box Ethernet + GSM / RS485</b> inkl. Ethernet port, GSM-Modem, RS485 to inverter	830,00 EUR
40233	<b>Power Reducer Box</b> ( for installations > 100kWp for connection with WebBox )	845,00 EUR
<b>Sunny View</b> ( Bluetooth )		
40364	<b>Sunny View (Bluetooth) Farbtouchscreen for</b> controlling of max. 12 SB inverters	248,00 EUR
40235	<b>Bluetooth Piggy Back f.SB Inverters</b> (except 3/4/5000TL, Tripower, HF-series), 1 per inverter	91,00 EUR



# Inverters ( Kaco )

pricelist 4/2013



your condition:	
your discount:	<b>23,00%</b>

Art.No.	description	Listen price plus VAT
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### transformerless Inverters from Kaco with 1-phase output (AC)

46432	<b>Powador 3200 INT, S,nenn 2600VA, max. 2850VA ( AC )</b>	$\eta(\max)96,4\%$ 896,00 EUR
46444	<b>Powador 4400 INT, S,nenn 3600VA, max. 4000VA ( AC )</b>	$\eta(\max)96,4\%$ 1.021,00 EUR
46453	<b>Powador 5300 INT, S,nenn 4400VA, max. 4800VA ( AC )</b>	$\eta(\max)96,4\%$ 1.036,00 EUR
46455	<b>Powador 5500 INT, S,nenn 4600VA, max. 5060VA ( AC )</b>	$\eta(\max)96,3\%$ 1.053,00 EUR

### transformerless Inverters from Kaco with 3-phase output (AC)

#### NEW: Available in July

46406	<b>Powador 6.0 TL3 INT, 3ph. output, S,nenn+max 5000VA</b>	$\eta(\max)98\%$ 2.079,00 EUR
46408	<b>Powador 7.8 TL3 INT, 3ph. output, S,nenn+max 6500VA</b>	$\eta(\max)98\%$ 2.159,00 EUR

#### NEW: Available at once

46409	<b>Powador 9.0 TL3 INT, 3ph. output, S,nenn+max 7500VA</b>	$\eta(\max)98\%$ 2.243,00 EUR
46410	<b>Powador 10.0 TL3 INT, 3ph. output, S,nenn+max 9000VA</b>	$\eta(\max)98\%$ 2.309,00 EUR
46412	<b>Powador 12.0 TL3 INT, 3ph. output, S,nenn+max 10000VA</b>	$\eta(\max)98\%$ 2.325,00 EUR
46414	<b>Powador 14.0 TL3 INT, 3ph. output, S,nenn+max 12500VA</b>	$\eta(\max)98\%$ 2.613,00 EUR
46415	<b>Powador 18.0 TL3 INT, 3ph. output, S,nenn+max 15000VA</b>	$\eta(\max)98\%$ 2.770,00 EUR
46331	<b>Powador 30.0 TL3 M INT, 3ph. output, S,nenn 25.000VA</b>	$\eta(\max)98\%$ 6.098,00 EUR
46332	<b>Powador 30.0 TL3 XL INT, 3ph. output, S,nenn 25.000VA</b>	$\eta(\max)98\%$ 6.463,00 EUR
46333	<b>Powador 33.0 TL3 M INT, 3ph. output, S,nenn 27.500VA</b>	$\eta(\max)98\%$ 6.166,00 EUR
46334	<b>Powador 33.0 TL3 XL INT, 3ph. output, S,nenn 27.500VA</b>	$\eta(\max)98\%$ 6.531,00 EUR
46336	<b>Powador 36.0 TL3 M INT, 3ph. output, S,nenn 30.000VA</b>	$\eta(\max)98\%$ 6.234,00 EUR
46337	<b>Powador 36.0 TL3 XL INT, 3ph. output, S,nenn 30.000VA</b>	$\eta(\max)98\%$ 6.573,00 EUR
46338	<b>Powador 39.0 TL3 M INT, 3ph. output, S,nenn 33.300VA</b>	$\eta(\max)98\%$ 6.304,00 EUR
46339	<b>Powador 39.0 TL3 XL INT, 3ph. output, S,nenn 33.300VA</b>	$\eta(\max)98\%$ 6.638,00 EUR
463xx	<b>Powador 40.0 TL3 M INT, 3ph. output, S,nenn 36.000VA</b>	$\eta(\max)98\%$ 6.759,00 EUR
463xx	<b>Powador 40.0 TL3 XL INT, 3ph. output, S,nenn 36.000VA</b>	$\eta(\max)98\%$ 7.125,00 EUR
46360	<b>Powador 60.0 TL3 M INT, 3ph. output, S,nenn 49.900VA</b>	$\eta(\max)98\%$ 7.567,00 EUR
46361	<b>Powador 60.0 TL3 XL INT, 3ph. output, S,nenn 49.900VA</b>	$\eta(\max)98\%$ 7.835,00 EUR

**Manufacturer´s guarantees:** 5 year product warranty,after Online-registration with Kaco 7 years for an extra charge expendable upto 10 years ( see manufacturer´s conditions )

Subject to change - errors and omissions excepted

# Inverters ( Kaco )

pricelist 4/2013



your condition:
your discount: <b>23,00%</b>

Art.No.	description	Liste price plus VAT
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### Transformer-Inverters from Kaco with 1-phase output (AC)

46122	<b>Powador 2002 INT</b> - S,nenn 1650VA, max. 1650VA ( AC )	$\eta(\max)95,9\%$ 1.014,00 EUR
46132	<b>Powador 3002 INT</b> - S,nenn 2500VA, max. 2500VA ( AC )	$\eta(\max)96\%$ 1.182,00 EUR
46142	<b>Powador 4202 INT</b> - S,nenn 3500VA, max. 3500VA (AC)	$\eta(\max)95,9\%$ 1.342,00 EUR
46152	<b>Powador 5002 INT</b> - S,nenn 4200VA, max. 4200VA (AC)	$\eta(\max)95,9\%$ 1.441,00 EUR
46162	<b>Powador 6002 INT</b> - S,nenn 4600VA, max. 5000VA (AC)	$\eta(\max)95,9\%$ 1.570,00 EUR

### Transformer-Inverters from Kaco with 3-phase output (AC)

46416	<b>Powador 16.0 TR3 INT</b> , 3ph. output, S,nenn+max 13500VA	$\eta(\max)96,2\%$ 3.986,00 EUR
46418	<b>Powador 18.0 TR3 INT</b> , 3ph. output, S,nenn+max 15000VA	$\eta(\max)96,2\%$ 4.201,00 EUR

**Manufacturer´s guarantee:** 5 year product warranty, after online-registration with Kaco 7 years  
for an extra charge expendable upto 10 years s.below ( see manufacturer´s condition

46211	<b>Powador earthing kit f. Transformer-inverters 02-series</b> in case of TR3-devices included in delivery)	22,00 EUR
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### Extention of warranty period from 7 upto 10 years (Europe)

46xxx	for Powador 2002 - 3002 and 3200 INT	164,00 EUR
46xxx	for Powador 4202 - 6600 INT	196,00 EUR
46xxx	for Powador 6.0 bis 18.0 TL3 INT	326,00 EUR
46xxx	for Powador 16.0 bis 18.0 TR3 INT	490,00 EUR

### Extention of warranty period from 7 upto20 years (Europe)

46xxx	for Powador 2002 - 3002 und 3200 INT	1.109,00 EUR
46xxx	for Powador 4202 - 6600 INT	1.305,00 EUR
46xxx	for Powador 6.0 bis 18.0 TL3 INT	1.957,00 EUR
46xxx	for Powador 16.0 upto18.0 TR3 INT	2.935,00 EUR

**Each of the guarantee conditions of Kaco new energy GmbH are valid.**

Subject to change - errors and omissions excepted



# Inverters ( Fronius )

pricelist 4/2013



your condition:
your discount: <b>23,00%</b>

Art.No.	description	Liste price plus VAT
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## Transformer-Inverters from Fronius ( from 7kW on = 2 / 3-phase Output (AC) )

48025	Fronius IG-Plus 25-V1 (1 ph.), S,nenn + max 2,6kVA (AC)	$\eta(\max)95,7\%$ 1.007,00 EUR
48031	Fronius IG-Plus 30-V1 (1 ph.), S,nenn + max 3,0kVA (AC)	$\eta(\max)95,7\%$ 1.020,00 EUR
48035	Fronius IG-Plus 35-V1 (1 ph.), S,nenn + max 3,5kVA (AC)	$\eta(\max)96\%$ 1.101,00 EUR
48050	Fronius IG-Plus 50-V1 (1 ph.), S,nenn + max 4kVA (AC)	$\eta(\max)96\%$ 1.228,00 EUR
48055	Fronius IG-Plus 55-V3 (3-ph.), S,nenn + max 5kVA (AC)	$\eta(\max)96\%$ 1.910,00 EUR
48060	Fronius IG-Plus 60-V2 (2-ph.), S,nenn + max 6kVA (AC)	$\eta(\max)96\%$ 1.847,00 EUR
48063	Fronius IG-Plus 60-V3 (3-ph.), S,nenn + max 6kVA (AC)	$\eta(\max)96\%$ 2.054,00 EUR
48070	Fronius IG-Plus 70-V2 (2-ph.), S,nenn + max 6,5kVA (AC)	$\eta(\max)96\%$ 1.979,00 EUR
48080	Fronius IG-Plus 80-V3 (3-ph.), S,nenn + max 7kVA (AC)	$\eta(\max)96\%$ 2.104,00 EUR
48100	Fronius IG-Plus 100-V2 (2-ph.), S,nenn + max 8kVA (AC)	$\eta(\max)96\%$ 2.099,00 EUR
48101	Fronius IG-Plus 100-V3 (3-ph.), S,nenn + max 8kVA (AC)	$\eta(\max)96\%$ 2.123,00 EUR
48120	Fronius IG-Plus 120-V3 (3-ph.), S,nenn + max 10kVA (AC)	$\eta(\max)96\%$ 2.364,00 EUR
48150	Fronius IG-Plus 150-V3 (3-ph.), S,nenn + max 12kVA (AC)	$\eta(\max)96\%$ 2.640,00 EUR

### Manufacturer´s guarantee:

5 year product warranty, for an extra charge expendable upto 10 years ( see manufacturer´s conditions )

48205	Stringfuse 15A / 600V F ( optional ) / VE 10 pcs.	37,00 EUR
48200	Grounding Kit Fronius IG-Plus (for Plus- und Minuspol-earthening)	75,00 EUR

### Extention of warranty period upto 10 years ( see manufacturer´s conditions )

48210	for IG-Plus 25 / 30 / 35 / 50	294,00 EUR
48211	for IG-Plus 60 / 70 / 100-V2	441,00 EUR
48212	for IG-Plus 55/60/80/100/120/150-V3	588,00 EUR

### Extention of warranty period upto 20 years ( see manufacturer´s conditions )

48220	for IG-Plus 25 / 30 / 35 / 50	1.029,00 EUR
48221	for IG-Plus 60 / 70 / 100-V2	1.324,00 EUR
48222	for IG-Plus 55/60/80/100/120/150-V3	1.765,00 EUR

### Communication ( for IG Plus-devices )

48201	Fronius Com Card retrofit - RS485	82,00 EUR
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# The components of a solar power system

Selected products - ensuring the quality and success

Only the right components turn photovoltaic systems into attractive investments. For that reason, we exclusively use quality components of "TOP Brand- manufacturers" – for photovoltaic systems with reliably high outputs and durability.



## **LG Electronics** uncompromising quality of a high solid company

High-performance modules of the worldwide acting and financially high solid company convince with uncompromising quality, highest efficiency, attractive design and an excellent price-performance-ratio. The turnover of LG-group of companies is about 128 Billion USD. Worldwide around 200.000 employees are working for LG. Beside photovoltaic modules LG also offers complementary products like LG-heat pumps, LG-climate systems and in future – LG-storage systems.

[www.lg.com/uk/solar](http://www.lg.com/uk/solar)



## **JA SOLAR** the world's biggest manufacturer of crystalline PV-Cells

JA Solar with its product capacity of 3 GWp is the world's biggest manufacturer of crystalline PV cells and placed under the TOP 3 of the biggest manufacturers of modules. Currently JA-Solar employs about 12.000 employees. Beside manufacturing their own brand, JA Solar is OEM-supplier for leading module manufacturers worldwide.

[www.jasolar.com](http://www.jasolar.com)



## **Hanwha Q-Cells** developed and manufactured in Germany

Hanwha Q CELLS is part of the South Korean Hanwha Group and one of the world's leading photovoltaics companies and offers a wide range of photovoltaic solutions, from solar cells and modules to solar power plants. Hanwha Q CELLS products are developed and manufactured at its headquarters in Thalheim (Germany) and marketed via its global sales network.

[www.q-cells.com](http://www.q-cells.com)



## **SMA** SMA Solar Technology AG

SMA Solar Technology AG develops, produces and sells solar inverters and monitoring systems for photovoltaic applications. SMA is the world's largest producer in this segment and is the only vendor that has a product range with the matching inverter type for any module type and any power class. This applies for grid tied applications as well as island and backup operation.

[www.sma.com](http://www.sma.com)



## **Kaco** Kaco new energy GmbH

KACO began manufacturing sine inverters more than 60 years ago. The product portfolio offered by KACO today is being used around the globe for rail vehicle and photovoltaic applications. KACO new energy was in 2010 the world's second largest manufacturer of photovoltaic inverters. With over 2 GW of inverters produced to date KACO is a trusted and reliable partner for photovoltaic systems across the globe.

[www.kaco-newenergy.com](http://www.kaco-newenergy.com)



## **Fronius** Fronius International GmbH

Fronius is one of the leading, oldest and most experienced manufacturers of solar inverters in Europe. The company produces in Austria and has already won several innovation awards.

[www.fronius.com](http://www.fronius.com)

