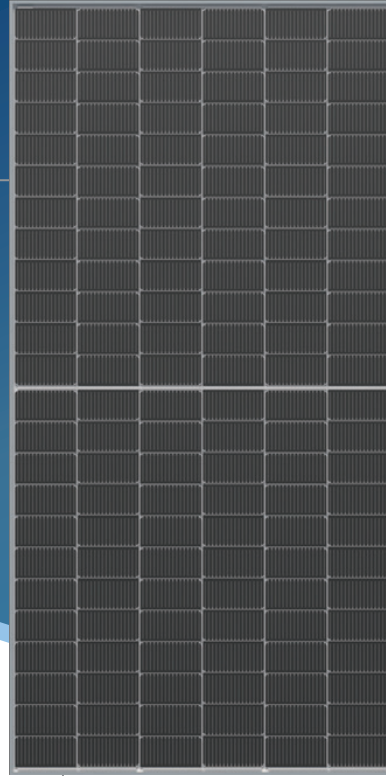


N-Type TOPCon

570-590Wp

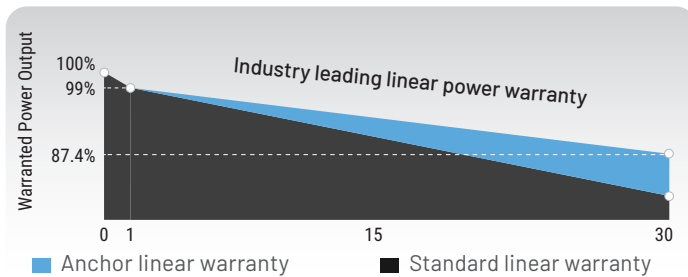
144 Half-Cell N-Type Topcon Dual
Glass Bifacial Module
AE14TXXXVHC16B5



22.8% Maximum Efficiency	15 YEARS Product Warranty	30 YEARS Performance Warranty
0~+5W Positive Power Tolerance	80% +/- 5% Bifaciality Factor	

Industry-Leading Warranty based on Nominal Power

1% First Year Degradation **0.4%** Lowest Annual Degradation



- Lowest Temperature Coefficient - 0.29%/°C
- Withstands Harsh Environment
- Apt for Ground Mount and Commercial & Industrial use
- Tested for Wind Load (2400 pascals) and Snow Load (5400 pascals)
- Superior Resistance to effects of PID
- N-Type TOPCon with Zero LID Loss

Certifications and Standards:



IEC 61215, IEC 61730, IEC 61701, IEC 62716



*Please refer to PLSIND Standard Module Installation Manual and Product Warranty for details

AE14TXXXVHC16B5

ELECTRICAL CHARACTERISTICS

STC	AE14TXXXVHC16B5				
Nominal Maximum Power (Pmax)	570W	575W	580W	585W	590W
Optimum Operating Voltage (Vmp)	42.44V	42.56V	42.68V	42.79V	42.91V
Open Circuit Voltage (Voc)	51.16V	51.29V	51.42V	51.55V	51.68V
Optimum Operating Current (Imp)	13.43A	13.51A	13.59A	13.67A	13.75A
Short Circuit Current (Isc)	14.16A	14.24A	14.32A	14.40A	14.48A
Module Efficiency	22.1%	22.3%	22.5%	22.6%	22.8%
Operating Temperature (°C)	40°C ~ +85°C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	25 A				
Power Tolerance	0, +5Wp				

STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM=1.5
PLSIND reserves the right to adjust the listed parameters without notice.

NOCT	AE14TXXXVHC16B5				
Nominal Maximum Power (Pmax)	434.6W	438.4W	442.2W	445.9W	448.8W
Optimum Operating Voltage (Vmp)	40.1V	40.2V	40.3V	40.4V	40.5V
Open Circuit Voltage (Voc)	48.6V	48.7V	48.8V	48.9V	49.1V
Optimum Operating Current (Imp)	10.85A	10.91A	10.98A	11.04A	11.07A
Short Circuit Current (Isc)	11.42A	11.48A	11.54A	11.61A	11.67A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1m/s.
PLSIND reserves the right to adjust the listed parameters without notice.

BIFACIAL GAIN (80±5%)	AE14TXXXVHC16B5				
5% Power Pmax	598.5W	603.75W	609W	614.25W	619.5W
15% Power Pmax	655.5W	661.25W	667W	672.75W	678.5W
25% Power Pmax	712.5W	718.75W	725W	731.25W	737.5W

- Bifacial gain depends on the power plant design and albedo of installation site
- Power Bifaciality = Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

TEMPERATURE CHARACTERISTICS

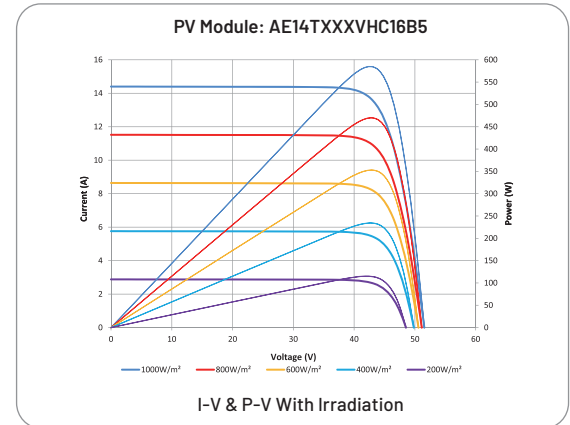
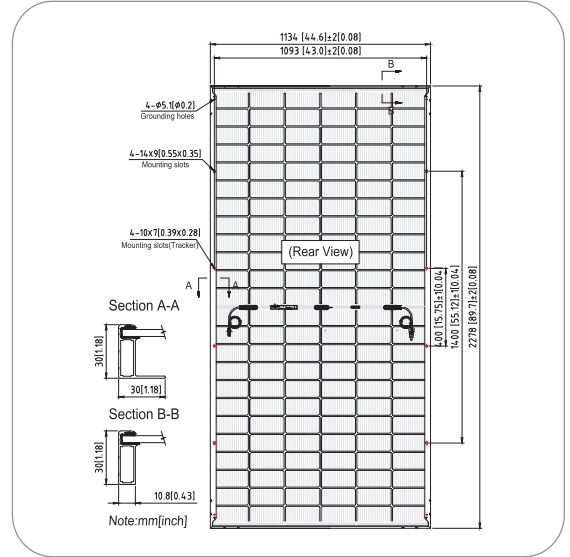
Temperature Coefficient of Pmax(γ)	-0.29 %/°C
Temperature Coefficient of Voc(β)	0.25 %/°C
Temperature Coefficient of Isc(α)	0.046 %/°C
Nominal Module Operating Temperature (NMOT)	42±2°C

MECHANICAL CHARACTERISTICS

Cell Type	N-type Topcon 91mm* 182mm
No. of Cells	144 (12x6 12x6)
Dimensions	2278 × 1134 × 30 mm
Weight	32.0 kg
Front Glass	2.0 mm semi-tempered glass
Rear Cover	2.0 mm semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0 mm ² (-) 1400 mm and (+) 1400 mm in length or customized length
Connectors	MC4 Compatible/ MC4-EV02/ TL-CABLE01S/ STP-XC4

PACKAGING CONFIGURATION

Container	40' HC	Modules per pallet	36
Pallets per container	20	Modules per container	720
Packaging box dimensions	2310x1120x1255 mm	Package weight	1202 kg



PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.

Panasonic Life Solutions India Pvt. Ltd.

Registered Office: 12th Floor, Ambience Tower, Ambience Island, NH-48, Gurugram, Haryana - 122 002.

In case of consumer complaints, contact Customer Care Executive: 3rd Floor, B Wing, I-Think Techno Campus, Pokhran Road No 2, Thane (West) - 400607, Maharashtra.

T: (9122) 42228888 | F: (9122) 42228888 | Customer care no.: (022) 41304130 | WhatsApp No: 91360 28606

Email: solar@in.panasonic.com | www.lsin.panasonic.com

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

N-Type TOPCon

420-440Wp

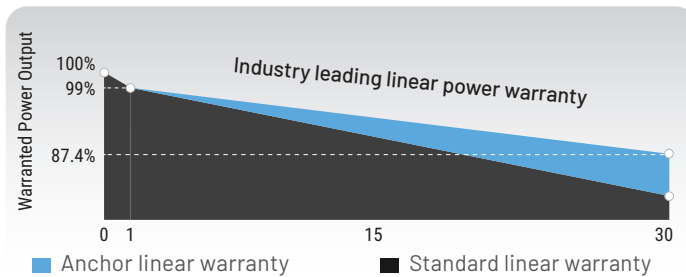
108 Half-Cell N-Type Topcon Dual Glass All Black Bifacial Module
AE10TXXXUHC16B6



22.5% Maximum Efficiency	15 YEARS Product Warranty	30 YEARS Performance Warranty
0~+5W Positive Power Tolerance	80% +/- 5% Bifaciality Factor	

Industry-Leading Warranty based on Nominal Power

1% First Year Degradation **0.4%** Lowest Annual Degradation



- Lowest Temperature Coefficient - 0.30%/°C
- Withstands Harsh Environment
- Apt for Ground Mount and Commercial & Industrial use
- Tested for Wind Load (2400 pascals) and Snow Load (5400 pascals)
- Superior Resistance to effects of PID
- N-Type TOPCon with Zero LID Loss

Certifications and Standards:



IEC 61215, IEC 61730, IEC 61701, IEC 62716



*Please refer to PLSIND Standard Module Installation Manual and Product Warranty for details

AE10TXXXUHC16B6

ELECTRICAL CHARACTERISTICS

STC	AE10TXXXUHC16B6				
Nominal Maximum Power (Pmax)	420W	425W	430W	435W	440W
Optimum Operating Voltage (Vmp)	31.96V	32.15V	32.33V	32.51V	32.69V
Open Circuit Voltage (Voc)	38.46V	38.59V	38.72V	38.85V	38.98V
Optimum Operating Current (Imp)	13.14A	13.22A	13.30A	13.38A	13.46A
Short Circuit Current (Isc)	14.09A	14.17A	14.25A	14.33A	14.41A
Module Efficiency	21.5%	21.8%	22%	22.3%	22.5%
Operating Temperature (°C)	40 ^o C ~ +85 ^o C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	25 A				
Power Tolerance	0, +5Wp				

STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM=1.5
PLSIND reserves the right to adjust the listed parameters without notice.

NOCT	AE10TXXXUHC16B6				
Nominal Maximum Power (Pmax)	321.1W	325W	328.7W	332.5W	336.4W
Optimum Operating Voltage (Vmp)	29.9V	30V	30.2V	30.3V	30.5V
Open Circuit Voltage (Voc)	36.5V	36.6V	36.8V	36.9V	37.0V
Optimum Operating Current (Imp)	10.75A	10.82A	10.89A	10.96A	11.03A
Short Circuit Current (Isc)	11.36A	11.42A	11.49A	11.55A	11.62A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1m/s.
PLSIND reserves the right to adjust the listed parameters without notice.

BIFACIAL GAIN (80±5%)	AE10TXXXUHC16B6				
5% Power Pmax	441W	446.25W	451.5W	456.75W	462W
15% Power Pmax	483W	488.75W	494.5W	500.25W	506W
25% Power Pmax	525W	531.25W	537.5W	543.75W	550W

- Bifacial gain depends on the power plant design and albedo of installation site
- Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

TEMPERATURE CHARACTERISTICS

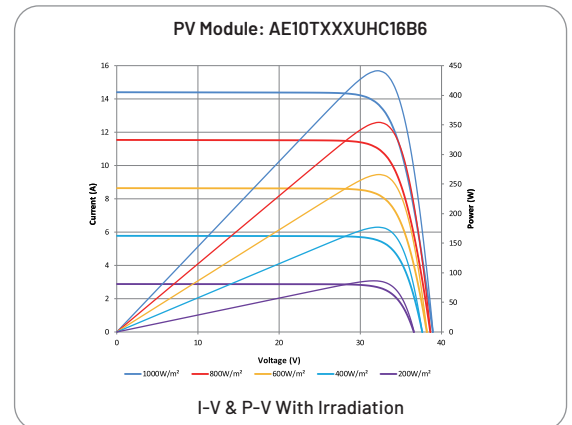
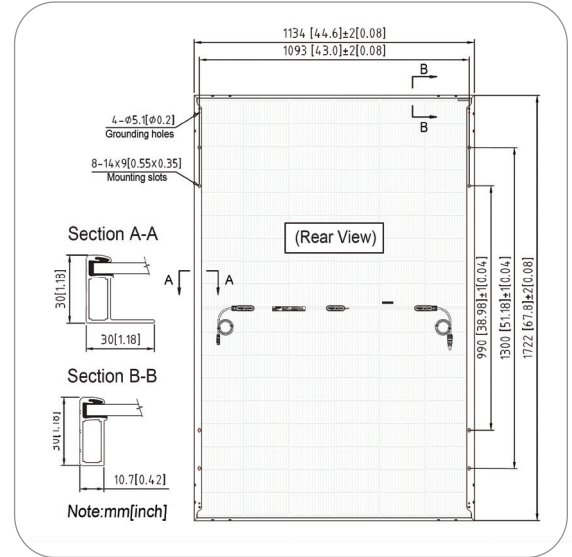
Temperature Coefficient of Pmax(γ)	-0.30 %/°C
Temperature Coefficient of Voc(β)	-0.25 %/°C
Temperature Coefficient of Isc(α)	0.046 %/°C
Nominal Module Operating Temperature (NMOT)	42±2°C

MECHANICAL CHARACTERISTICS

Cell Type	N-type Topcon 91mm* 182mm
No.of Cells	108(9x6 9x6)
Dimensions	1722 × 1134 × 30 mm
Weight	21.0 kg
Front Glass	1.6 mm semi-tempered glass
Rear Cover	1.6 mm semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0 mm ² (-) 1400 mm and (+) 1400 mm in length or customized length
Connectors	MC4 Compatible/ MC4-EV02/ TL-CABLE01S/ STP-XC4

PACKAGING CONFIGURATION

Container	40' HC	Modules per pallet	36
Pallets per container	26	Modules per container	936
Packaging box dimensions	1755x1120x1255 mm	Package weight	798 kg



PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.

Panasonic Life Solutions India Pvt. Ltd.

Registered Office: 12th Floor, Ambience Tower, Ambience Island, NH-48, Gurugram, Haryana - 122 002.

In case of consumer complaints, contact Customer Care Executive: 3rd Floor, B Wing, I-Think Techno Campus, Pokhran Road No 2, Thane (West) - 400607, Maharashtra.

T: (9122) 42228888 | F: (9122) 42228888 | Customer care no.: (022) 41304130 | WhatsApp No: 91360 28606

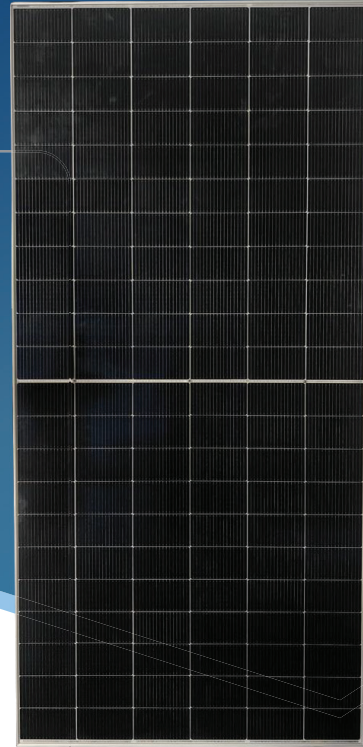
Email: solar@in.panasonic.com | www.lsin.panasonic.com

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

N-Type TOPCon

605-625Wp

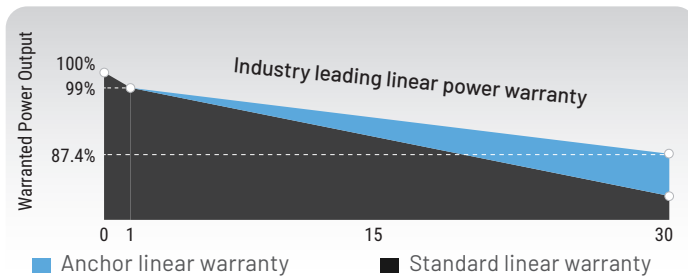
132 Half-Cell N-Type Topcon Dual
Glass Bifacial Module
AE13TDXXTHC16B5



23.1% Maximum Efficiency	15 YEARS Product Warranty	30 YEARS Performance Warranty
0~+5W Positive Power Tolerance	80% +/- 5% Bifaciality Factor	

Industry-Leading Warranty based on Nominal Power

1% First Year Degradation **0.4%** Lowest Annual Degradation



- Lowest Temperature Coefficient - 0.29%/°C
- Withstands Harsh Environment
- Apt for Ground Mount and Commercial & Industrial use
- Tested for Wind Load (2400 pascals) and Snow Load (5400 pascals)
- Superior Resistance to effects of PID
- N-Type TOPCon with Zero LID Loss

Certifications and Standards:



IEC 61215, IEC 61730, IEC 61701, IEC 62716



*Please refer to PLSIND Standard Module Installation Manual and Product Warranty for details

AE13TDXXTHC16B5

ELECTRICAL CHARACTERISTICS

STC	AE13TDXXTHC16B5				
Nominal Maximum Power (Pmax)	605W	610W	615W	620W	625W
Optimum Operating Voltage (Vmp)	40.31V	40.48V	40.65V	40.82V	40.98V
Open Circuit Voltage (Voc)	48.50V	48.70V	48.90V	49.10V	49.30V
Optimum Operating Current (Imp)	15.01A	15.07A	15.13A	15.19A	15.25A
Short Circuit Current (Isc)	15.89A	15.95A	16.01A	16.07A	16.13A
Module Efficiency	22.4%	22.6%	22.8%	23.0%	23.1%
Operating Temperature (°C)	40 ^o C ~ +85 ^o C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	35 A				
Power Tolerance	0, +5Wp				

STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM=1.5
PLSIND reserves the right to adjust the listed parameters without notice.

NOCT	AE13TDXXTHC16B5				
Nominal Maximum Power (Pmax)	462.9W	466.6W	470.4W	474.2W	476.7W
Optimum Operating Voltage (Vmp)	38.00V	38.10V	38.30V	38.50V	38.60V
Open Circuit Voltage (Voc)	46.10V	46.30V	46.50V	46.70V	46.90V
Optimum Operating Current (Imp)	12.19A	12.23A	12.28A	12.33A	12.34A
Short Circuit Current (Isc)	12.81A	12.86A	12.91A	12.95A	13.00A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1m/s.
PLSIND reserves the right to adjust the listed parameters without notice.

BIFACIAL GAIN (80±5%)	AE13TDXXTHC16B5				
5% Power Pmax	635.25W	640.50W	645.75W	651.00W	656.25W
15% Power Pmax	665.50W	671.00W	676.50W	682.00W	687.50W
25% Power Pmax	756.25W	762.50W	768.75W	775.00W	781.25W

- Bifacial gain depends on the power plant design and albedo of installation site
- Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

TEMPERATURE CHARACTERISTICS

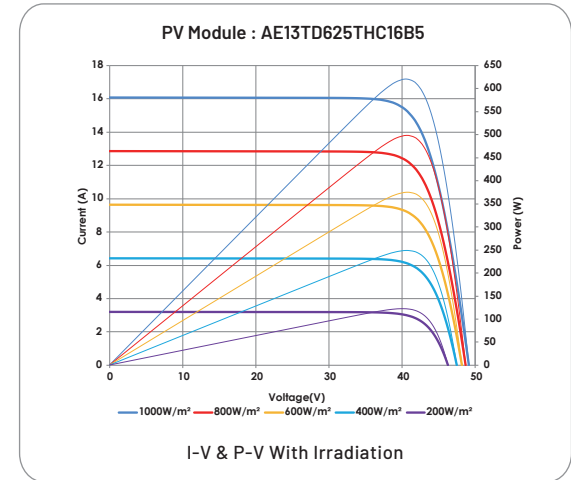
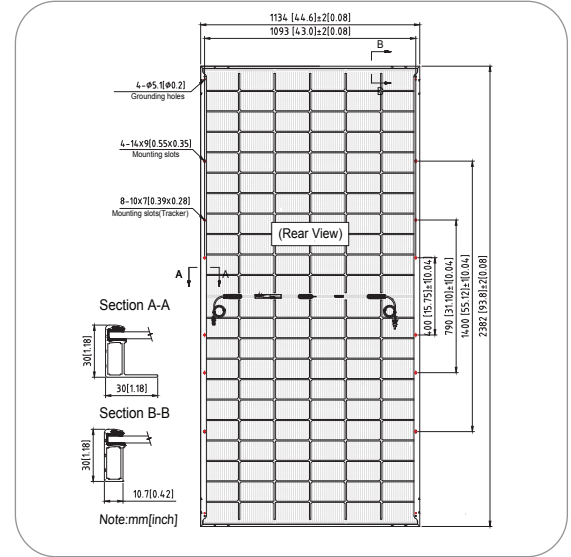
Temperature Coefficient of Pmax(γ)	-0.29 %/°C
Temperature Coefficient of Voc(β)	-0.25 %/°C
Temperature Coefficient of Isc(α)	+0.046 %/°C
Nominal Module Operating Temperature (NMOT)	42±2°C

MECHANICAL CHARACTERISTICS

Cell Type	N-type TOPCon 182mm X 210mm
No.of Cells	132 (11X6 11X6)
Dimensions	2382 X 1134 X 30 mm
Weight	32.5kg
Front Glass	2.0 mm Semi Tempered glass
Rear Cover	2.0 mm Semi Tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0 mm ² (-) 1400 mm and (+) 1400 mm in length or customized length
Connectors	MC4 Compatible/ MC4-EV02/ TL-CABLE01S/ STP-XC4

PACKAGING CONFIGURATION

Container	40'HC	Modules per pallet	36
Pallets per container	20	Modules per container	720
Packaging box dimensions	2505x1120x1155 mm	Package weight	1204kg



PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.

Panasonic Life Solutions India Pvt. Ltd.

Registered Office: 12th Floor, Ambience Tower, Ambience Island, NH-48, Gurugram, Haryana - 122 002.

In case of consumer complaints, contact Customer Care Executive: 3rd Floor, B Wing, I-Think Techno Campus, Pokhran Road No 2, Thane (West) - 400607, Maharashtra.

T: (9122) 42228888 | F: (9122) 42228888 | Customer care no.: (022) 41304130 | WhatsApp No: 91360 28606

Email: solar@in.panasonic.com | www.lsin.panasonic.com

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.