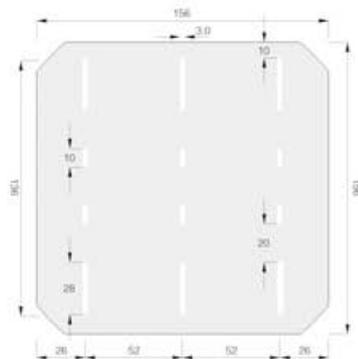
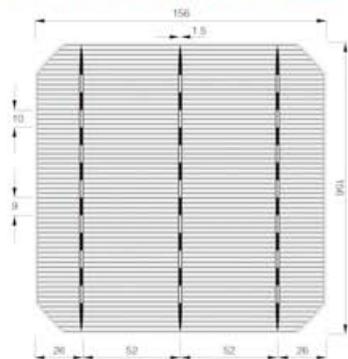


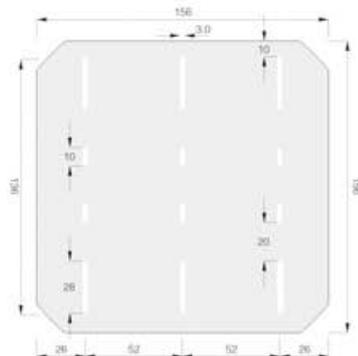
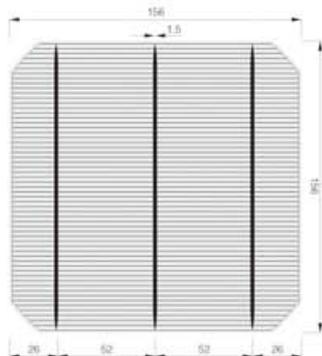
# 3BB MONOCRYSTALLINE SILICON SOLAR CELLS

■ Front and back contact design

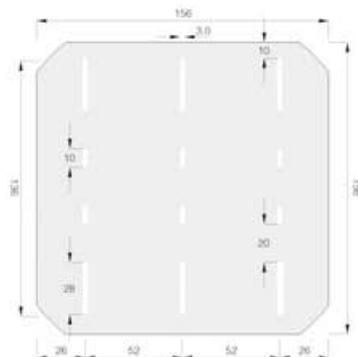
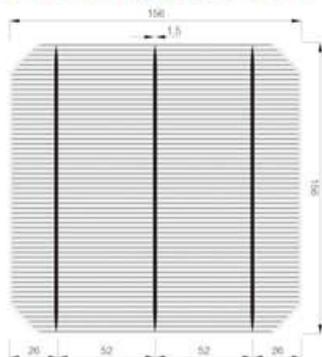
## ■ MGSC-M6HC-3BB



## ■ MGSC-M6FC-3BB

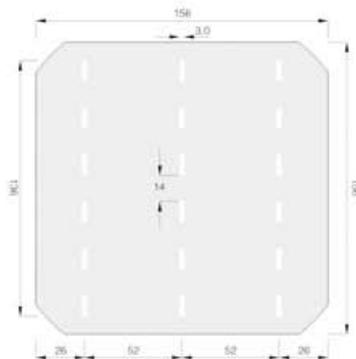
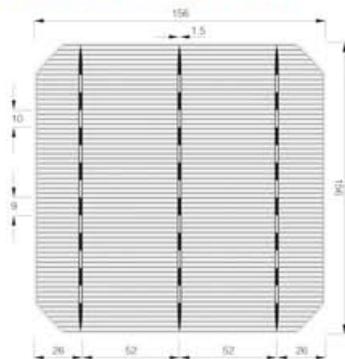


## ■ MGSC-M6AC-3BB

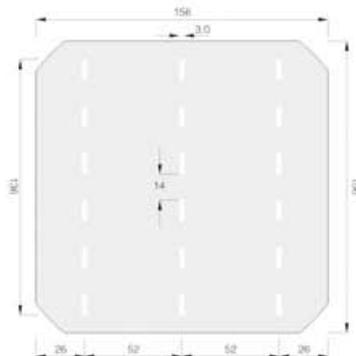
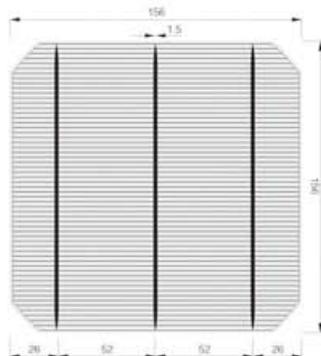


■ Front and back contact design

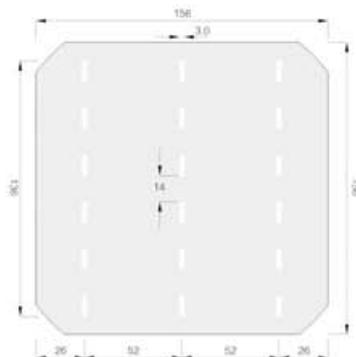
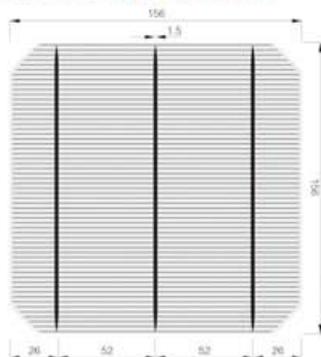
■ **MGSC-M6HB-3BB**



■ **MGSC-M6FB-3BB**



■ **MGSC-M6AB-3BB**



## ■ Design and mechanical data

Category: monocrystalline silicon solar cell  
 Dimension: pseudo-square 156mm × 156mm ± 0.5mm  
 Diagonal: 200 mm ± 1.0mm  
 Thickness: 200 μm ± 20μm  
 Front (-): blue color SiNx anti-reflection coating  
 3×1.5mm silver busbars  
 Rear (+): full-surface aluminium back- surface field  
 3x3.0mm silver/aluminium soldering pads

## ■ Temperature coefficients

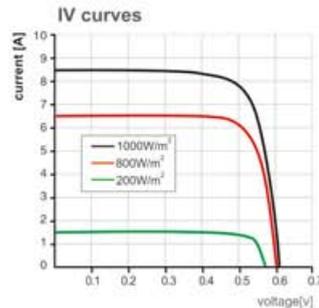
Power: -0.48%/K  
 Open circuit voltage: -0.36%/K  
 Short circuit current: +0.02%/K

## ■ Electrical data

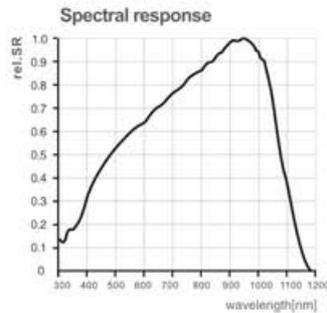
Power class <i>acc. to <math>I(V_{FIX})</math></i>	Efficiency [%]	Power at $V_{FIX}$ [W]	$I(V_{FIX}=515mV)$ [A]	Fill factor [%]	$V_{oc}$ [mV]	$I_{sc}$ [A]
MGSC_4550	19,0	4,55	8,9	78,8	634	9,10
MGSC_4500	18,8	4,50	8,8	78,6	632	9,05
MGSC_4450	18,6	4,45	8,7	78,4	630	9,00
MGSC_4400	18,4	4,40	8,6	78,2	628	8,95
MGSC_4350	18,2	4,35	8,5	78,0	626	8,90
MGSC_4300	18,0	4,30	8,4	77,8	624	8,85
MGSC_4250	17,8	4,25	8,3	77,6	622	8,80

All electrical data measured under standard test conditions: 1000W/m<sup>2</sup>, AM1.5; 25° C; tolerance P: ± 1.5 % rel.  
 Current class measurement at  $V_{FIX} = 515$  mV. Reverse bias and shunt resistance criteria:  $R_{sh} > 15$  Ohm,  $I_{sc} < 1.5A$  at -12V).

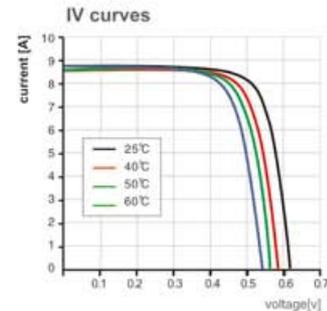
## ■ Electrical parameters



IV behavior at various degrees of irradiation intensity



Spectral sensitivity curve



IV behaviour for various temperatures

All data were derived under standard test conditions. Standard test conditions: light spectrum AM = 1.5; irradiation intensity E = 1000W/m<sup>2</sup>; Cell temperature T= 25° C.