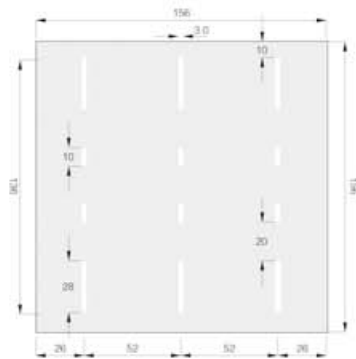
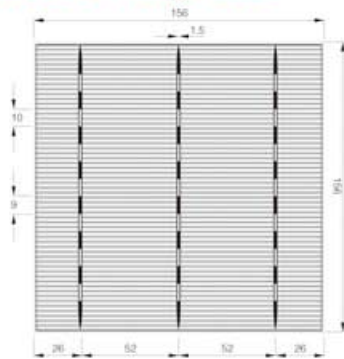


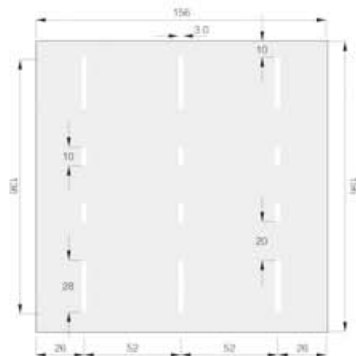
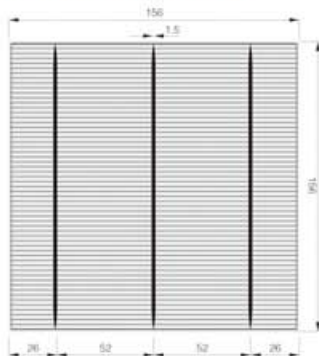
3BB POLYCRYSTALLINE SILICON SOLAR CELLS

■ Front and back contact design

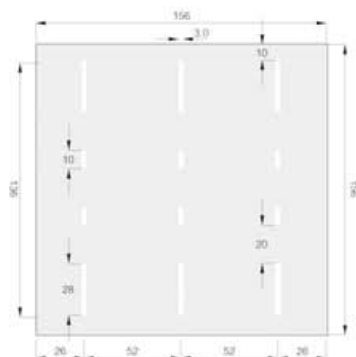
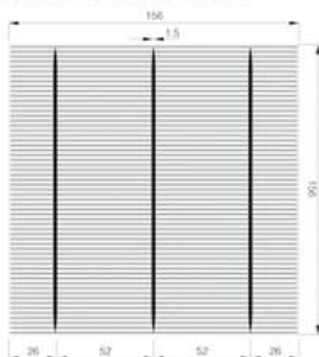
■ MGSC-P6HC-3BB



■ MGSC-P6FC-3BB

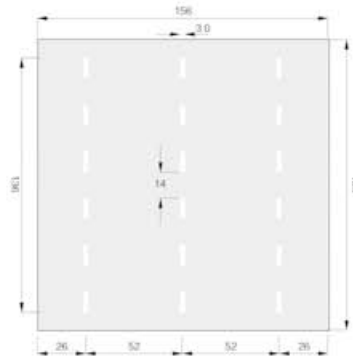
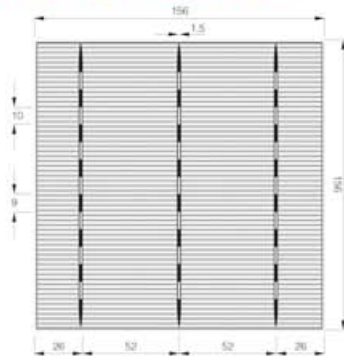


■ MGSC-P6AC-3BB

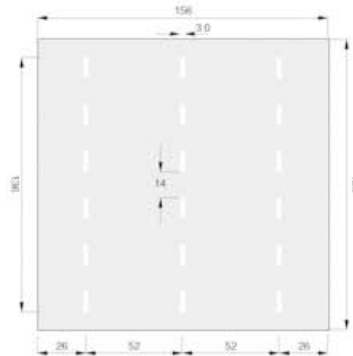
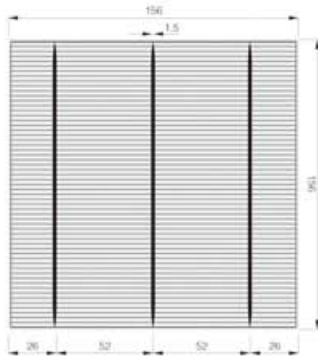


■ Front and back contact design

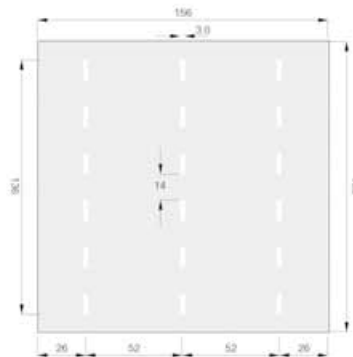
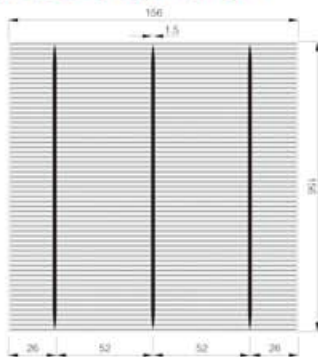
■ *MGSC-P6HB-3BB*



■ *MGSC-P6FB-3BB*



■ *MGSC-P6AB-3BB*



■ Design and mechanical data

Category: polycrystalline silicon solar cell
 Dimension: 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
 3 x3.0mm silver/aluminium soldering pads

■ Temperature coefficients

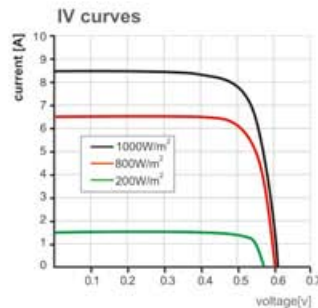
Power: -0.43%/K,
 Open circuit voltage: -0.36%/K,
 Short circuit current: +0.06%/K

■ Electrical data

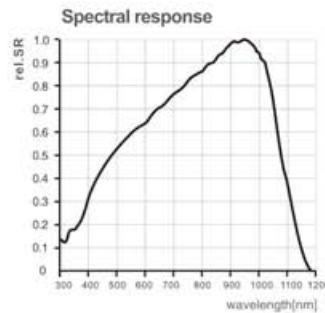
Power class acc. to $I(V_{Fix})$	Efficiency [%]	Power at V_{Fix} [W]	$I(V_{Fix}=505mV)$ [A]	Fill factor [%]	V_{oc} [mV]	I_{sc} [A]
MGSC_4250	17,4	4,25	8,4	78,7	631	8,55
MGSC_4200	17,2	4,20	8,3	78,5	629	8,50
MGSC_4150	17,0	4,15	8,2	78,3	627	8,45
MGSC_4100	16,8	4,10	8,1	78,1	625	8,40
MGSC_4050	16,6	4,05	8,0	77,9	623	8,35
MGSC_4000	16,4	4,00	7,9	77,7	620	8,30
MGSC_3950	16,2	3,95	7,8	77,5	618	8,25
MGSC_3900	16,0	3,90	7,7	77,3	616	8,20

All electrical data measured under standard test conditions: 1000W/m², AM1.5; 25° C; tolerance P: ± 1.5 % rel.
 Current class measurement at $V_{Fix} = 505$ mV. Reverse bias and shunt resistance criteria: $R_{sh} > 15$ Ohm, $I_{sc} < 1.5A$ at -12V);

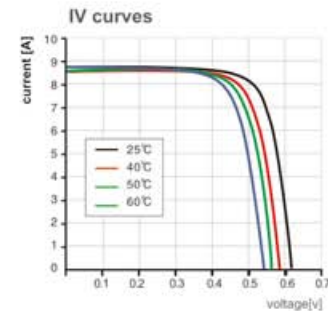
■ Electrical parameters



IV behavior at various degrees of irradiation intensity



Spectral sensitivity curve



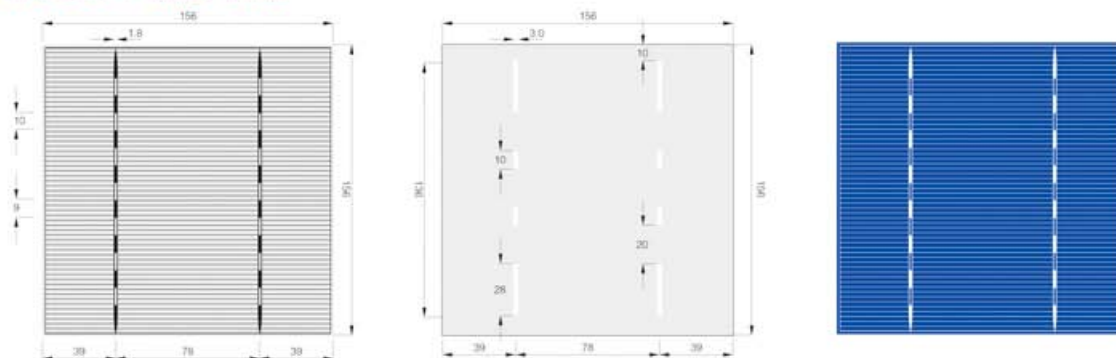
IV behaviour for various temperatures

All data were derived under standard test conditions. Standard test conditions: light spectrum AM = 1.5; irradiation intensity E = 1000W/m²;
 Cell temperature T = 25°C.

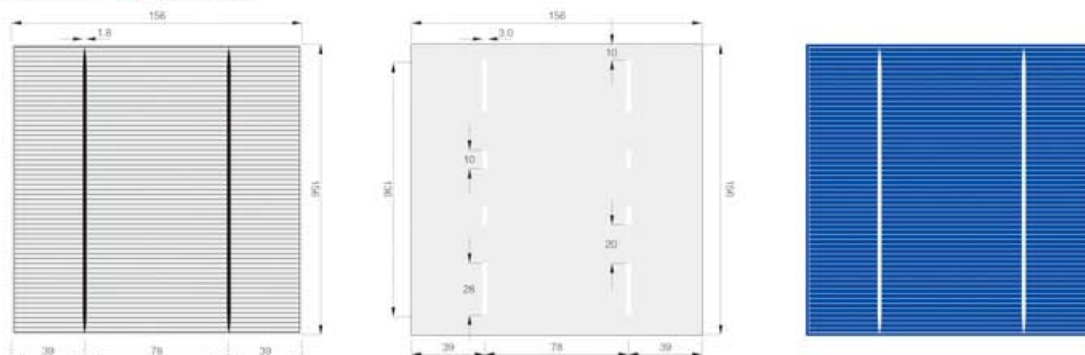
2BB POLYCRYSTALLINE SILICON SOLAR CELLS

■ Front and back contact design

■ MGSC-P6HC-2BB



■ MGSC-P6FC-2BB



■ MGSC-P6AC-2BB

