



## QUALITY POOL PUMP POWERED BY GRUNDFOS MGE SOLAR MOTOR



Run your pool pump with the power of the sun

### Product Information:

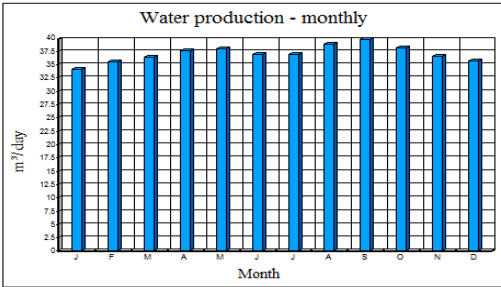
- The PoolFlex Pump is manufactured in South Africa by Quality Pool & Spa and adapted to fit onto the high efficiency AC/DC Grundfos MGFlex Motor
- The MGFlex 2-pole motor (frame size 80) with integrated frequency converter can be powered by solar (DC) or the grid (AC).
- The integrated frequency converter enables the MGFlex motor to run at a high efficiency across a wide speed range.
- When operating on a DC supply (solar power), Maximum Power Point Tracking (MPPT) will continuously optimize the motor speed according to the input power available and thus ensure optimum efficiency across the system.

### Overload protection:

- All motors are supplied complete with built-in IEC60034-11 approved thermal protection. Steady overload and stalled conditions will result in the motor ceasing to operate, automatically resetting itself and restarting once the fault has been cleared.

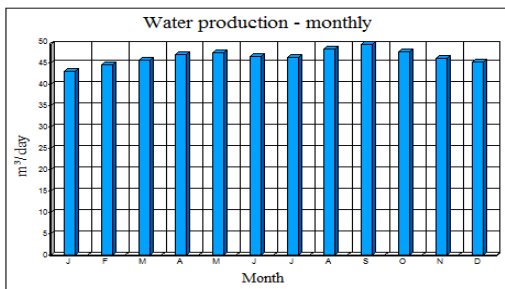


### Average flow per day using 3 x GF100TF Solar Modules



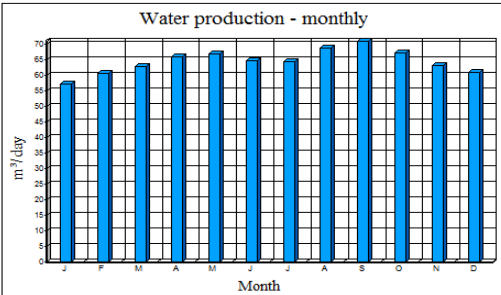
Minimum water production: 34 m³/day  
Maximum water production: 39.6 m³/day

### Average flow per day using 6 x GF100TF Solar Modules



Minimum water production: 43.1 m³/day  
Maximum water production: 49.1 m³/day

### Average flow per day using 9 x GF100TF Solar Modules



Minimum water production: 57.3 m³/day  
Maximum water production: 70.9 m³/day

*The average flows shown above are as tested in Johannesburg.*

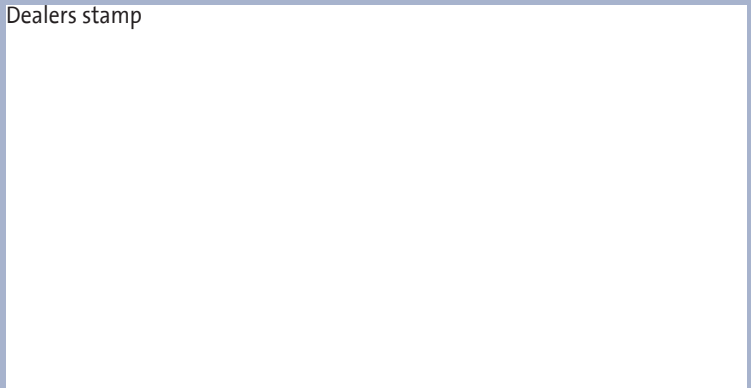
*The Solar Radiation can differ from area to area so the average flows may also differ.*



### Technical Data

Power supply to pump	110 – 415VDC, PE PE
Energy source	Solar Module Generator Grid
Start/Stop control	Digital input to control the start/stop of the motor
Sensor connection	The motor electronics allows one external sensor connection. The motor can supply max 24VDC 40mA to this connected device.
Power Switch on/off or from DC to AC	Maximum 4 times per hour
Ambient Temperature	During operation: -20°C to +40°C During storage/transport: -40°C to +60°C
Relative humidity	Maximum 95%
Motor protection	Built-in motor protection against <ul style="list-style-type: none"> <li>- overvoltage and undervoltage</li> <li>- overload</li> <li>- over-temperature</li> </ul>
Leaking current	< 3.5 mA
Power factor	0.97
Earth-leakage circuit breaker	If the pump/motor is connected to an earth-leakage circuit breaker (ELCB) for additional protection, this circuit breaker shall detect AC fault currents, pulsating DC fault currents and smooth DC fault currents.
Installation outdoor	The motor/pump must be installed under shield to avoid direct sunlight, rain, hail and snow.
Enclosure class	IP 54
Insulation class	F (IEC 85)
EMC Compatibility	EN 61 800-3
Sound pressure level	< 63 db(A)
Marking	CE

Dealers stamp



Assembled, tested and supplied by Grundfos South Africa