



As the leading vertically integrated manufacturer of lithium iron phosphate battery systems, **Y and R Solar (pty) Ltd** has provided various battery solutions for nearly all kinds of ESS applications. Thanks to our self-developed core technology in cells/BMS/system design, **Y and R Solar (pty) Ltd** has delivered more than 138+ countries serving 100,000+ users.

www.solarwaysuppliers.co.za

✔ Long life and safety

Vertical industry integration ensures more than 6500 cycles with 80% DoD .
Safe Lithium iron battery cell.

✔ Intelligent

Each battery with independent BMS system manages power output smartly and effectively.

✔ Modularization

Modular design gives the end customers the power of choice of capacity Deliver up to 300KW with single max module (20.48KWh) at 15pcs parallel connection.

✔ Easy to install and use

Just plug and play to minimize the installation time and cost.
Compact and fashionable design fits in your sweet home environment.

✔ Compatibility

Compatible with most of the available Hybrid inverters.

✔ Safety Cert

UL1642, IEC62619, CE, UN38.3, MSDS.

Battery Specifications

Model No	M20
Nominal Parameters	
Voltage	51.2V
Capacity	400Ah
Energy	20.48KwH
Dimensions (L x W x H)	458x385x1220mm
Weight	210.5kg
Basic Parameters	
Life time(25°C)	15 years
Life cycles(80% DOD, 25°C)	6500Cycles
Storage time / temperature	5 months @ 25°C; 3 months @ 35°C; 1 month @ 45°C
Operation temperature	-20°C to 60°C @60+/-25% Relative Humidity
Storage temperature	0°C to 45°C @60+/-25% Relative Humidity
Lithium Battery Standard	UL1642,IEC62619,UN38.3,ROHS,CE-EMC
Enclosure protection rating	IP50
Electrical Parameters	
Operation voltage	46-56 Vdc
Max.charging voltage	56 Vdc
Max.charging and discharging current	150A
Max Power	7680W

