

Solar Module 53W

Brand	Morningsun Solar
Model	MSP-53

TYPICAL ELECTRICAL CHARACTERISTICS

Max-Power	Pm(W)	53
Max-Power Voltage *	Vm(V)	17,8
Max-Power Current *	Im(A)	2,98
Open-Circuit Voltage *	Voc(V)	21,6
Short-Circuit Current *	Isc(A)	3,2
Panel efficiency	η (%)	14,65%
Power Tolerance	(%)	+/-3
Pm Temperature Coefficient	(%/ °C)	-0,45
Isc Temperature Coefficient	(%/ °C)	0,05
Max-System Voltage	(VDC)	1000
NOCT-Nominal Operating Cell Temperature	(°C)	47+/-2

MECHANICAL CHARACTERISTICS

Dimension	540x670x25 mm
Weight	4,2 kg
Glass, Type and Thickness	High Transmission, Low Iron Tempered Glass 3.2 mm
Backsheet, Laminating material	TPE, EVA
Connection	Junction Box

ABSOLUTE RATINGS

Operating Temperature	(°C)	-40~+85
Storage Temperature	(°C)	-40~+85
*STC Conditions(1000W/㎡,1.5AM and 25 °C Cell Temperature)		