



120~340V

Nominal Input Voltage

48V

Nominal Output Voltage

3.0kW

Maximum Output Power

96%

Efficiency



C830S 3kW MPPT Solar Converter

PV Input:

Nominal Voltage:	120V ~ 340Vdc
Voltage Range:	120V ~420V
Maximum Input Current:	17A
Maximum Static Voltage:	450Vdc
MPPT Efficiency:	>99.5%
Peak Efficiency:	>96.2%

DC Output:

Nominal Voltage:	48V
Voltage Range:	42-58V
Maximum Current:	62.5A
Regulation:	
Load Regulation Rate:	±0.5%
Regulation Precision:	±0.6%
Source Regulation Rate:	±0.5%
Standby Power Consumption:	<2W
Power Consumption No PV Output:	<1W
Noise:(under nominal conditions)	
Voice Band:	<2mV rms psophometric
Wide Band:	3.4KHz-150KHz: <50mV rms unweighted 150KHz-30MHz: <20mV rms unweighted
Peak to Peak 0-20MHz:	<200mV peak to peak
Load Sharing:	±5%

Protection:

Reverse Connection Protection:

Input: when the PV battery input connects reversely , the solar module does not start up

Output: when the PV battery output connects reversely, the fuse will be broken

Over/under Voltage Protection:

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Isolation:

Input Output Terminal to CAN Bus:	2253V
Input to Chassis:	1406V
Output to Chassis:	1406V

Environmental:

Operating Temperature:	-40 to +75°C (maximum output power is derated above 55°C)
Storage Temperature:	-40 to +75°C
Humidity:	5-95%RH(non-condensing)
Altitude:	<3000m, De-rate maximum ambient temperature by 4°C per 1000m above sea level
EMC:	Class B
Lightning:	5kA
Insulation Resistance:	>5Mohms

Mechanical:

Dimensions, W, H, D:	106.5mm, 41.5mm,286mm
Weight:	<1.85kg