



ENERGY  
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CHANGES

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### CEC Efficiency – Sunny Highpower PEAK3 125-US (SHP 125-US-20)

As measured according to Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems, Sandia National Laboratories, Oct 2014

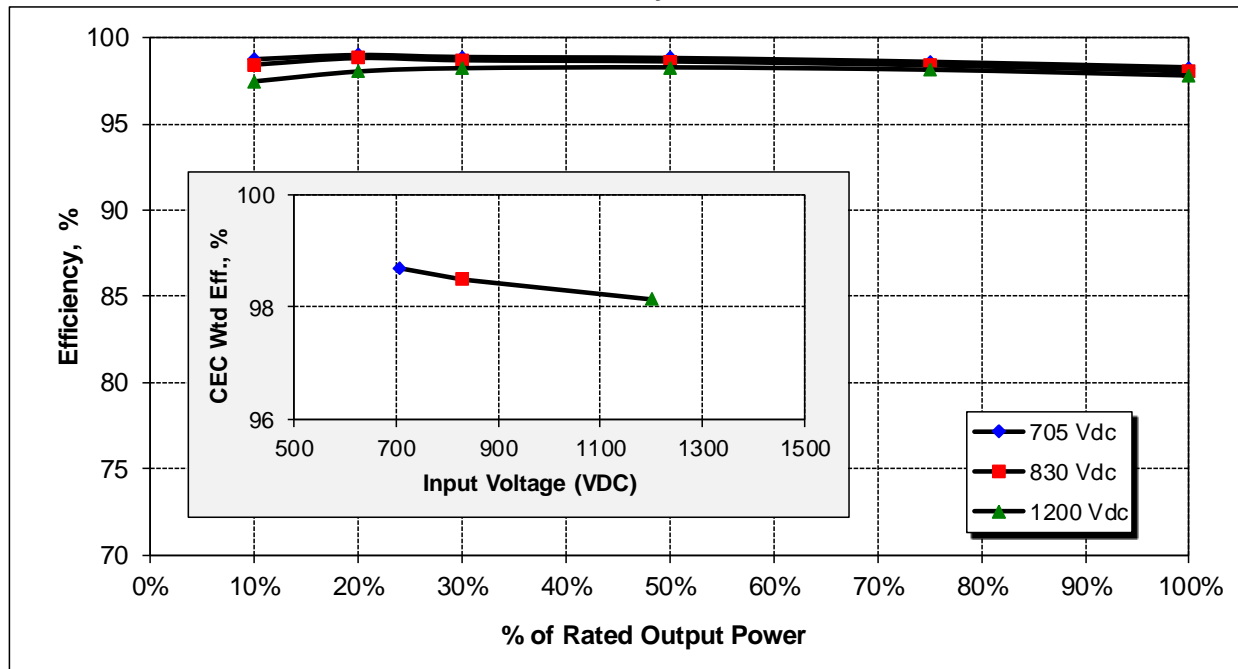
Nominal Power: 125 kW

Output voltage/frequency: 480 VAC / 60 Hz

Night Tare Loss: 5.37 W

Input Voltage (VDC)	Power Level (%; kW)						CEC Wtd
	10%	20%	30%	50%	75%	100%	
Vmin 705	98.8	99.0	98.9	98.8	98.6	98.3	98.7
Vnom 830	98.4	98.8	98.7	98.6	98.4	98.1	98.5
Vmax 1200	97.5	98.0	98.2	98.3	98.1	97.8	98.1

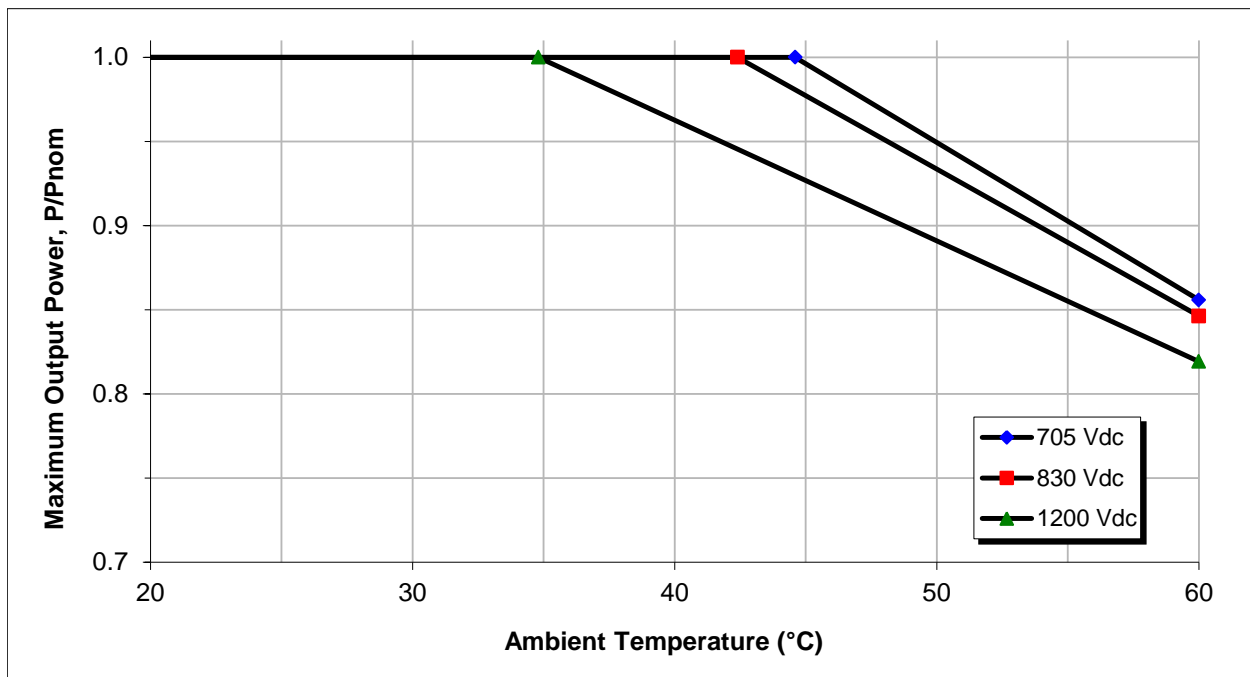
CEC Efficiency = 98.5%



### Temperature Derating Profile – Sunny Highpower PEAK3 125-US (SHP 125-US-20)

As measured according to DIN EN 50524 - Data sheet and name plate for photovoltaic inverters

		Start of Derating (°C Ambient)	Max Power at 60°C	
			kW	% Pnom
Vmin	705	44.6	106.974	86
Vnom	830	42.4	105.780	85
Vmax	1200	34.8	102.406	82



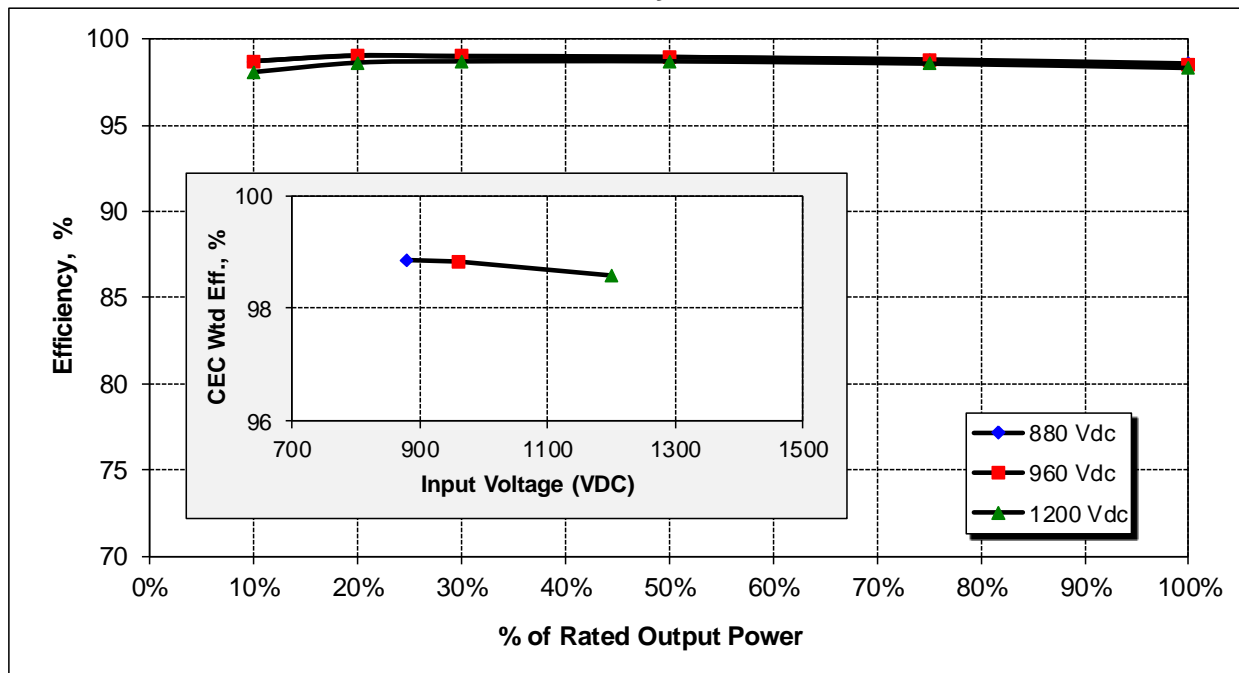
### CEC Efficiency – Sunny Highpower PEAK3 150-US (SHP 150-US-20)

As measured according to Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems, Sandia National Laboratories, Oct 2014

Nominal Power: 150 kW      Output voltage/frequency: 600 VAC / 60 Hz      Night Tare Loss: 6.63 W

Input Voltage (Vdc)	Power Level (%; kW)						CEC Wtd
	10%	20%	30%	50%	75%	100%	
Vmin 880	15.00	30.00	45.00	75.00	112.50	150.00	98.9
Vnom 960	98.7	99.1	99.0	99.0	98.8	98.6	98.8
Vmax 1200	98.7	99.0	99.0	99.0	98.8	98.5	98.8
	98.1	98.6	98.7	98.7	98.6	98.3	98.6

**CEC Efficiency = 99.0%**



## Temperature Derating Profile – Sunny Highpower PEAK3 150-US (SHP 150-US-20)

As measured according to DIN EN 50524 - Data sheet and name plate for photovoltaic inverters

		Start of Derating (°C Ambient)	Max Power at 60°C	
			kW	% Pnom
Vmin	880	50.6	131.920	88
Vnom	960	48.0	129.478	86
Vmax	1200	40.4	127.116	85

