Manufacturer: Enecsys Limited

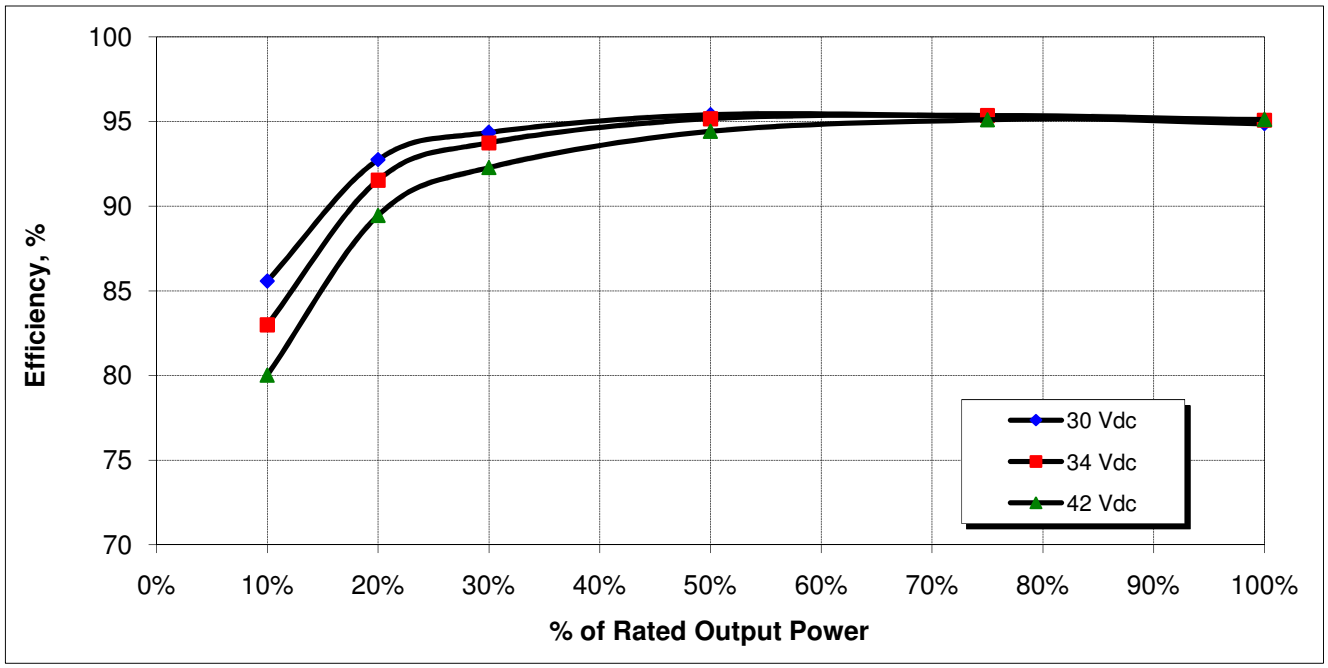
Model #: SMI-280-72

Rated Maximum Continuous Output Power: 265.00 W Night Tare Loss: 0.03 W

Vmin: 30 Vdc Vnom: 34 Vdc Vmax: 42 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		26.50	53.00	79.50	132.50	198.75	265.00	Wtd
Vmin	30	85.6	92.7	94.4	95.4	95.3	94.9	94.7
Vnom	34	83.0	91.5	93.7	95.2	95.3	95.1	94.4
Vmax	42	80.0	89.5	92.3	94.4	95.1	95.1	93.7

CEC Efficiency = 94.5%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample # 0100011313			Sample # 0100010633			Sample # 0100011304			Sample # 0100011006			Sample # 0100010598		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	22.2	31.2	84.5	24.4	30.6	86.4	23.6	30.7	85.7	24.0	30.7	86.0	21.8	31.3	84.0
20%	Vmin	57.1	30.9	92.7	58.2	30.4	93.0	57.4	30.7	92.8	56.9	30.9	92.6	56.9	30.9	92.7
30%	Vmin	83.4	31.0	94.2	84.6	30.7	94.3	85.3	30.4	94.4	85.9	30.4	94.4	85.8	30.3	94.5
50%	Vmin	142.1	30.6	95.4	141.0	30.8	95.4	142.6	30.5	95.4	142.2	30.6	95.4	141.1	30.6	95.5
75%	Vmin	218.2	31.2	95.2	207.6	31.2	95.3	211.2	30.9	95.3	209.8	31.1	95.3	211.9	30.9	95.4
100%	Vmin	273.6	31.8	94.8	272.1	31.8	94.9	277.7	31.6	94.8	272.6	31.8	94.9	278.6	31.6	95.0
10%	Vnom	22.5	33.6	83.4	22.4	33.9	83.2	22.2	34.1	83.0	22.2	33.9	82.9	21.8	34.7	81.9
20%	Vnom	55.1	33.8	91.6	54.8	33.6	91.6	54.0	34.1	91.4	55.1	33.8	91.5	54.7	33.9	91.5
30%	Vnom	84.8	33.9	93.7	84.9	33.6	93.8	84.7	33.7	93.8	84.6	34.0	93.7	84.4	33.9	93.7
50%	Vnom	145.0	33.5	95.2	144.7	33.5	95.2	144.9	33.2	95.2	145.0	33.5	95.2	144.7	33.7	95.2
75%	Vnom	212.8	33.4	95.3	212.3	33.8	95.3	212.4	33.7	95.4	212.6	33.6	95.3	212.6	33.6	95.5
100%	Vnom	270.7	33.3	95.0	270.1	33.6	95.1	270.7	33.4	95.1	270.2	33.5	95.1	270.6	33.5	95.2
10%	Vmax	20.9	36.9	80.2	20.9	36.9	80.3	20.8	36.9	80.2	20.9	37.1	80.0	20.4	36.3	79.8
20%	Vmax	52.7	39.0	89.9	53.3	40.0	89.5	53.5	40.2	89.4	53.2	40.0	89.4	53.1	40.0	89.3
30%	Vmax	82.8	40.0	92.4	82.9	40.0	92.3	83.0	39.9	92.3	82.8	40.0	92.3	82.5	39.8	92.2
50%	Vmax	142.7	40.1	94.5	142.7	40.1	94.4	142.0	39.8	94.5	142.4	39.9	94.4	141.8	39.8	94.4
75%	Vmax	212.7	41.4	95.1	212.8	41.1	95.1	212.4	41.0	95.1	212.5	41.1	95.1	212.1	41.1	95.1
100%	Vmax	272.3	41.4	95.2	271.8	41.9	95.1	270.7	42.1	95.1	272.0	41.7	95.1	271.5	41.6	95.1

Specified		Sample # 0100011001			Sample # 0100010670			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	24.1	30.7	86.3	24.3	30.5	86.3									
20%	Vmin	57.6	30.6	92.8	57.2	30.8	92.7									
30%	Vmin	84.8	30.7	94.3	84.7	30.7	94.3									
50%	Vmin	141.3	30.7	95.4	142.0	30.6	95.4									
75%	Vmin	207.4	31.2	95.3	209.5	31.1	95.3									
100%	Vmin	269.0	31.9	94.9	275.0	31.7	94.9									
10%	Vnom	22.4	33.6	83.3	22.4	33.8	83.1									
20%	Vnom	55.1	33.8	91.6	55.2	33.7	91.6									
30%	Vnom	84.9	33.6	93.8	84.9	33.7	93.7									
50%	Vnom	144.8	33.5	95.1	145.0	33.6	95.1									
75%	Vnom	212.3	33.8	95.3	212.9	33.5	95.3									
100%	Vnom	270.8	33.4	95.0	271.1	33.3	95.1									
10%	Vmax	21.0	37.4	79.9	20.9	37.3	79.7									
20%	Vmax	53.3	40.2	89.4	53.4	40.3	89.2									
30%	Vmax	82.8	40.2	92.3	82.9	40.1	92.2									
50%	Vmax	142.5	40.3	94.4	142.8	40.3	94.3									
75%	Vmax	212.4	41.3	95.1	212.4	41.2	95.1									
100%	Vmax	272.6	41.4	95.1	271.6	41.7	95.1									