Manufacturer: Enecsys Limited

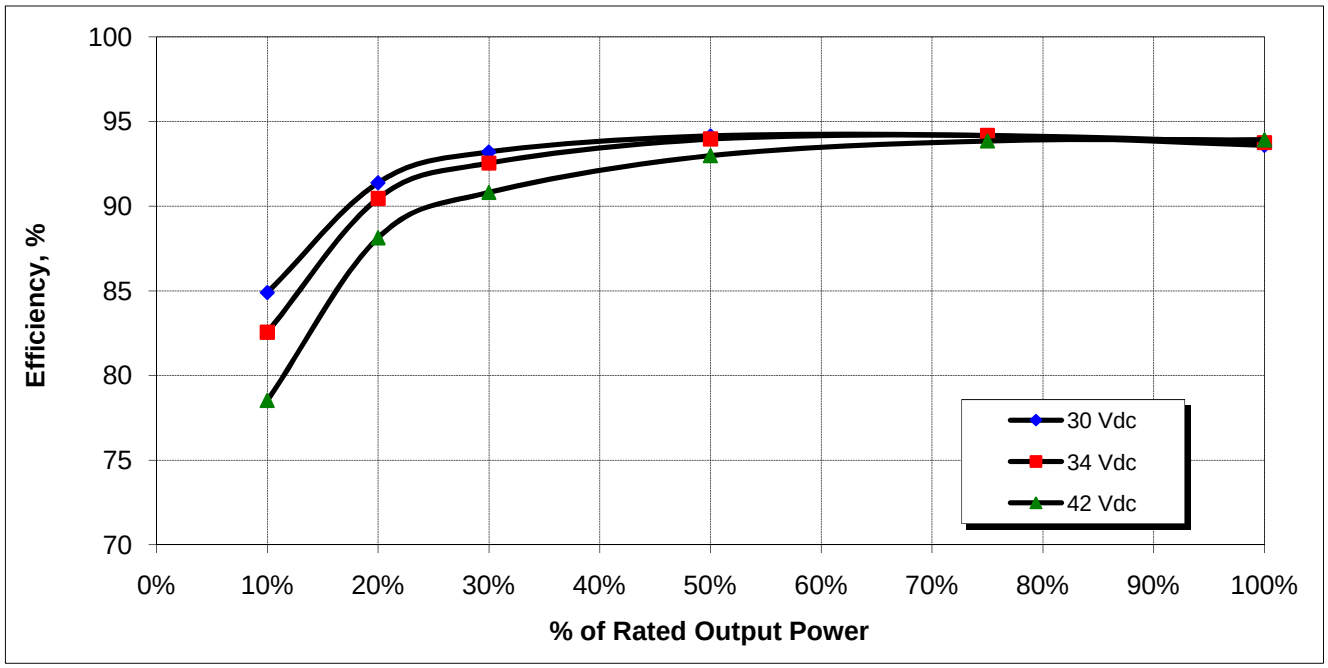
Model #: SMI-220

Rated Maximum Continuous Output Power: 220.00 W Night Tare Loss: 0.06 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		22.00	44.00	66.00	110.00	165.00	220.00	Wtd
Vmin	30	84.9	91.4	93.2	94.2	94.2	93.6	93.5
Vnom	34	82.6	90.5	92.5	94.0	94.2	93.8	93.3
Vmax	42	78.5	88.1	90.8	93.0	93.9	93.9	92.4

CEC Efficiency = 93.0%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample # 0100000169			Sample # 0100000226			Sample # 0100000018			Sample # 0100000051			Sample # 0100000341		
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	20.5	30.7	84.6	20.5	30.8	84.8	20.8	30.6	85.5	20.3	30.8	84.3	20.8	30.6	85.3
20%	Vmin	42.9	31.1	91.1	43.9	30.7	91.5	44.0	30.8	91.7	43.4	30.9	91.2	43.3	31.0	91.4
30%	Vmin	66.6	30.9	93.1	67.0	30.8	93.2	66.8	30.9	93.3	67.1	30.8	93.1	67.6	30.7	93.3
50%	Vmin	110.6	31.3	94.1	111.4	31.2	94.1	110.9	31.2	94.2	110.6	31.3	94.1	112.0	31.1	94.2
75%	Vmin	160.4	31.8	94.2	160.0	31.8	94.1	161.3	31.8	94.2	160.5	31.8	94.1	159.7	31.9	94.2
100%	Vmin	218.8	32.7	93.6	215.7	32.8	93.5	218.5	32.7	93.6	216.5	32.7	93.5	215.4	32.8	93.6
10%	Vnom	20.0	34.0	82.1	20.3	33.7	82.9	20.2	34.0	83.1	20.1	34.0	82.2	20.1	34.0	82.8
20%	Vnom	43.2	34.4	90.0	43.9	34.2	90.4	44.0	34.2	90.6	44.3	33.8	90.4	44.3	34.0	90.6
30%	Vnom	67.0	34.6	92.3	67.8	34.1	92.5	67.8	34.3	92.7	68.6	33.8	92.5	68.5	33.8	92.7
50%	Vnom	115.1	33.9	93.9	115.6	33.7	94.0	115.5	33.9	94.0	114.8	34.1	93.9	115.3	33.9	94.0
75%	Vnom	172.3	33.6	94.2	171.7	33.7	94.2	172.6	33.4	94.2	171.9	33.7	94.1	172.5	33.5	94.2
100%	Vnom	226.2	33.5	93.8	226.7	33.3	93.7	226.4	33.4	93.8	226.4	33.4	93.7	226.5	33.3	93.7
10%	Vmax	18.6	39.2	77.8	18.7	39.1	78.5	19.0	40.0	78.9	18.7	39.8	77.7	18.8	39.3	78.9
20%	Vmax	42.6	40.3	87.7	42.7	40.5	88.0	42.8	40.1	88.5	42.6	40.4	87.7	42.6	40.0	88.3
30%	Vmax	66.6	40.9	90.6	66.5	41.9	90.5	66.9	40.6	91.1	66.6	41.4	90.5	66.6	40.7	91.0
50%	Vmax	113.3	41.7	92.8	112.8	41.8	92.9	114.2	41.6	93.1	112.7	41.9	92.8	113.9	41.6	93.1
75%	Vmax	172.1	41.3	93.8	172.1	41.2	93.8	171.9	41.3	93.9	172.0	41.3	93.8	172.1	41.3	93.9
100%	Vmax	228.0	40.9	93.9	228.7	40.7	93.9	228.8	40.7	94.0	227.7	40.9	93.8	228.5	40.8	93.9

Specified		Sample # 0100000292			Sample # 0100000302			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	19.9	31.2	84.4	20.7	30.7	85.3									
20%	Vmin	42.3	31.3	91.2	43.5	30.9	91.5									
30%	Vmin	65.9	31.1	93.2	66.0	31.0	93.2									
50%	Vmin	111.0	31.2	94.2	110.2	31.3	94.2									
75%	Vmin	159.8	31.9	94.2	157.5	32.0	94.2									
100%	Vmin	215.8	32.8	93.7	214.3	32.8	93.7									
10%	Vnom	19.5	34.6	82.0	19.9	34.0	82.9									
20%	Vnom	44.4	34.0	90.7	43.3	34.5	90.4									
30%	Vnom	67.1	34.5	92.5	68.1	34.2	92.7									
50%	Vnom	115.1	34.1	94.0	115.0	34.1	94.0									
75%	Vnom	171.4	33.8	94.2	172.4	33.5	94.2									
100%	Vnom	225.9	33.4	93.8	225.9	33.5	93.8									
10%	Vmax	19.0	40.0	78.7	19.0	39.6	79.2									
20%	Vmax	42.7	39.9	88.3	42.7	40.0	88.5									
30%	Vmax	66.6	40.5	91.0	66.8	40.7	91.1									
50%	Vmax	113.8	41.3	93.1	113.1	41.9	93.1									
75%	Vmax	172.7	41.2	93.9	172.7	41.2	93.9									
100%	Vmax	228.8	40.6	93.9	228.5	40.8	94.0									