Manufacturer: Fronius International GmbH

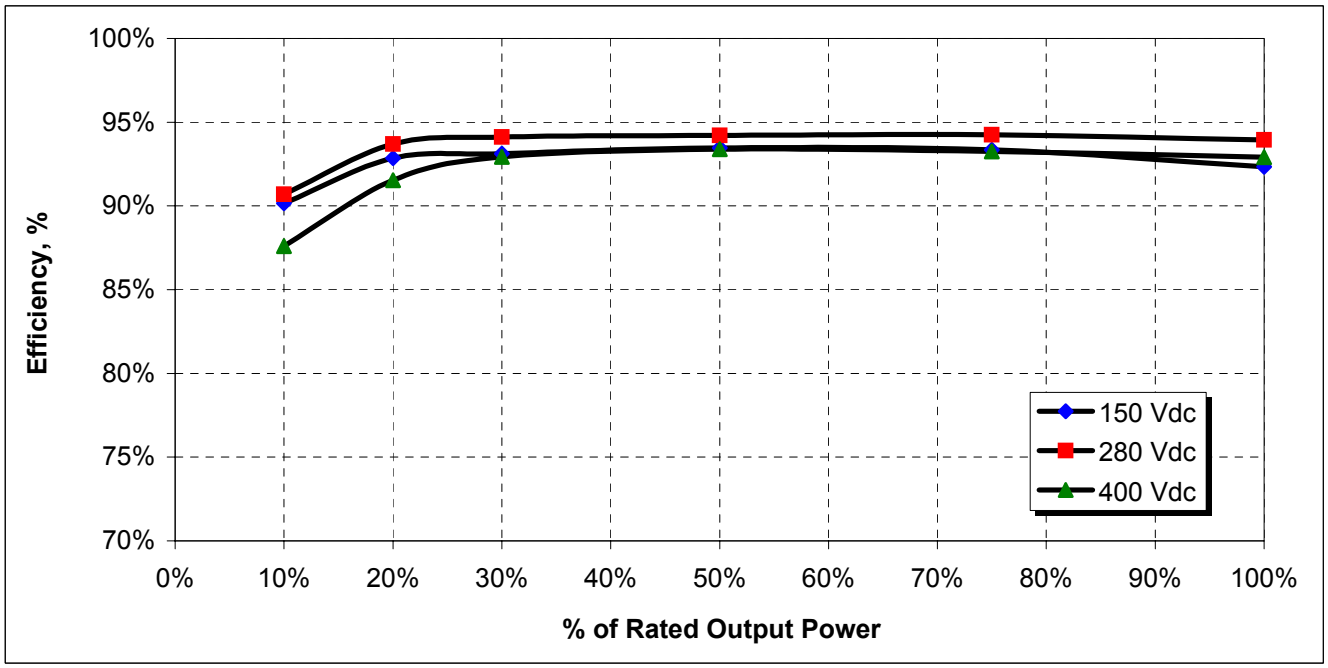
Model #: IG 4500LV

Rated Maximum Continuous Output Power: 4.50 kW Night Tare Loss: 0.91 W

Vmin: 150 Vdc Vnom: 280 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.45	0.90	1.35	2.25	3.38	4.50	Wtd
Vmin	150	90.2%	92.9%	93.1%	93.5%	93.4%	92.3%	93.1%
Vnom	280	90.7%	93.7%	94.1%	94.2%	94.2%	93.9%	94.0%
Vmax	400	87.6%	91.5%	92.9%	93.4%	93.3%	92.9%	92.9%

CEC Efficiency = 93.5%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
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	447.901	150.01	0.902	447.9	150.24	0.901	447.9	150.08	0.902	447.89	150.33	0.901	447.89	150.25	0.902
20%	Vmin	900.996	150.22	0.930	901	150.03	0.929	901.01	150.08	0.928	900.98	150.11	0.929	901	150.11	0.929
30%	Vmin	1350.29	150.11	0.930	1351.9	150.07	0.931	1351.9	150.01	0.933	1351.9	149.9	0.931	1351.9	149.97	0.933
50%	Vmin	2248.77	150.26	0.934	2248.8	150.09	0.934	2250.3	150.04	0.935	2248.8	150.16	0.934	2252	150.26	0.936
75%	Vmin	3380.79	149.92	0.935	3379.7	149.78	0.935	3380.8	150.03	0.934	3382.5	149.89	0.933	3382.5	150.07	0.933
100%	Vmin	4493.92	150.55	0.921	4489.2	150	0.924	4495.4	150.33	0.923	4496.9	149.92	0.925	4487.3	149.83	0.924
10%	Vnom	451.382	277.97	0.910	447.9	277.84	0.905	447.9	277.95	0.903	449.64	277.86	0.908	451.39	278.04	0.910
20%	Vnom	904.566	277.79	0.938	902.77	277.98	0.936	904.57	277.91	0.938	904.56	277.77	0.937	902.77	278.1	0.936
30%	Vnom	1345.4	277.74	0.941	1345.4	277.85	0.941	1345.4	277.73	0.941	1345.4	277.8	0.943	1345.4	277.83	0.940
50%	Vnom	2248.74	277.9	0.941	2247.1	277.84	0.942	2250.4	277.79	0.942	2248.8	277.87	0.942	2250.4	278.03	0.944
75%	Vnom	3376.29	277.41	0.944	3374.6	278.04	0.941	3374.6	278.06	0.944	3376	278.16	0.941	3376.3	277.86	0.943
100%	Vnom	4506.34	277.26	0.942	4507.7	278.08	0.939	4506.3	277.83	0.940	4503.2	277.56	0.940	4507.8	278.1	0.937
10%	Vmax	451.365	395.7	0.876	451.36	395.7	0.876	451.37	395.7	0.877	451.36	395.7	0.876	451.39	395.7	0.877
20%	Vmax	900.957	395.65	0.915	900.97	395.65	0.916	900.96	395.65	0.915	900.97	395.65	0.916	900.96	395.65	0.915
30%	Vmax	1353.69	395.55	0.927	1355.5	395.55	0.929	1355.5	395.55	0.929	1355.5	395.55	0.929	1355.5	395.55	0.930
50%	Vmax	2234.74	395.62	0.935	2234	395.62	0.935	2233.1	395.62	0.932	2234.5	395.62	0.933	2234.5	395.62	0.934
75%	Vmax	3380.69	395.6	0.934	3380.7	395.6	0.933	3377.6	395.6	0.932	3382.3	395.6	0.932	3379	395.6	0.932
100%	Vmax	4501.37	395.64	0.929	4496.7	395.64	0.929	4499.9	395.64	0.929	4499.9	395.64	0.929	4501.4	395.64	0.930

Specified		Sample #6			Sample #7			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	447.907	150.22	0.902	447.9	150.1	0.902									
20%	Vmin	899.423	150.05	0.927	901.01	150.02	0.929									
30%	Vmin	1351.89	149.98	0.931	1350.3	150.03	0.930									
50%	Vmin	2250.34	150.19	0.934	2250.4	150.11	0.935									
75%	Vmin	3380.8	149.9	0.932	3380.8	149.97	0.934									
100%	Vmin	4493.9	149.96	0.925	4484.5	150.05	0.921									
10%	Vnom	449.634	277.81	0.906	4507.8	278.07	0.905									
20%	Vnom	902.763	277.94	0.935	904.57	278.06	0.937									
30%	Vnom	1345.39	277.89	0.942	1345.4	277.85	0.941									
50%	Vnom	2248.75	277.99	0.941	2250.4	278.13	0.944									
75%	Vnom	3374.61	278.13	0.941	3376.3	277.15	0.944									
100%	Vnom	4509.49	278.22	0.940	4504.6	278.09	0.938									
10%	Vmax	451.365	395.7	0.876	4495.1	395.7	0.873									
20%	Vmax	900.964	395.65	0.916	900.95	395.65	0.915									
30%	Vmax	1355.51	395.55	0.931	1355.5	395.55	0.930									
50%	Vmax	2233.15	395.62	0.933	2234.6	395.62	0.936									
75%	Vmax	3382.34	395.6	0.932	3377.6	395.6	0.932									
100%	Vmax	4498.25	395.64	0.929	4499.9	395.64	0.929									