



APLICATIVO DE DIMENSIONAMIENTO SOLAR INVICTUS

Base de Datos

Nombre	Marca	Celulas	Tension de trabajo [V]	Potencia maxima Pmax [W]	Tension a potencia maxima Vmp [V]	Corriente a potencia maxima Imp [A]	Tension de circuito abierto Voc [V]	Corriente de corto circuito Isc [A]	Eficiencia	Coefficiente de Temperatura Isc %/°C	Coefficiente de Temperatura Voc %/°C	Coefficiente de Temperatura Pmax %/°C	Temperatura nominal de la célula (TONC)	Largo [mm]	Ancho [mm]	Precio \$
Panel Solar 505W Deep Blue 3.0 JA Solar	JA Solar	132	24	505	38.53	13.11	45.72	14	21.30%	0.045%	-0.275%	-0.35%	45	2093	1134	\$ 346,154.00
Panel Solar 500W Deep Blue 3.0 JA Solar	JA Solar	132	24	500	38.35	13.04	45.59	13.93	21.10%	0.045%	-0.275%	-0.35%	45	2093	1134	\$ 346,154.00
Panel Solar 545W 24V Monocristalino JA SOLAR	JA Solar	144	24	545	41.8	13.04	49.75	13.93	21.10%	0.045%	-0.275%	-0.35%	45	2278	1134	\$ 718,523.00
Panel Solar 550W 24V Monocristalino JA SOLAR	JA Solar	144	24	550	41.96	13.11	49.9	13.93	21.30%	0.045%	-0.275%	-0.35%	45	2278	1134	\$ 718,523.00
Panel Solar 555W 24V Monocristalino JA SOLAR	JA Solar	144	24	555	42.11	13.18	50.02	14.07	21.50%	0.045%	-0.275%	-0.35%	45	2278	1134	\$ 718,523.00
Panel Solar JA SOLAR 455W 24V Monocristalino Perc	JA Solar	144	24	455	41.82	10.88	49.85	11.41	20.40%	0.044%	-0.272%	-0.35%	45	2120	1052	\$ 699,638.00
Panel Solar 550W 24V Monocristalino PERC EcoGreen	EcoGreen	144	24	550	40.98	13.42	49.68	14.01	21.28%	0.048%	-0.28%	-0.35%	45	2279	1134	\$ 1,152,002.00
Panel Solar 340W 24V Monocristalino PERC JA SOLAR	JA Solar	120	24	340	34.73	9.79	41.55	10.46	20.20%	0.044%	-0.272%	-0.35%	45	1689	996	\$ 615,938.00
Panel Solar 540W 24V Monocristalino PERC EcoGreen	EcoGreen	144	24	540	41.2	13.11	49.4	13.87	21.10%	0.05%	-0.28%	-0.36%	41	2279	1134	\$ 778,557.00
Panel Solar 450W 24V Monocristalino PERC EcoGreen	EcoGreen	144	24	450	41.4	10.87	50	11.4	20.60%	0.05%	-0.30%	-0.35%	41	2102	1040	\$ 889,963.00
Panel Solar 445W 24V Monocristalino PERC Canadian Solar	Canadian Solar	144	24	445	40.9	10.89	48.9	11.54	20.10%	0.05%	-0.27%	-0.35%	42	2108	1048	\$ 1,164,574.00
Panel Solar 210W 12V Monocristalino	Restar Solar	36	12	210	20.05	10.47	23.95	11.07	19.23%	0.05%	-0.32%	-0.39%	45	1560	700	\$ 276,878.00
Panel Solar Monocristalino 240W Tensite	Tensite	182	12	240	40.7	5.9	48.4	6.3	19.80%	0.08558%	-0.29506%	-0.38%	45	1568	770	\$ 264,895.00
Panel Solar Bifacial 610W N-Type Tensite	Tensite	132	45	610	39.77	15.34	48.1	16.05	22.60%	0.30%	-0.24%	-0.29%	45	2384	1134	\$ 550,611.00
Panel Solar Bifacial 710W N-Type Tensite	Tensite	132	45	710	40.69	17.45	48.94	18.45	22.86%	0.04%	-0.25%	-0.34%	45	2384	1303	\$ 640,876.00
Panel Solar Bifacial 620W Deep Blue 4.0 N-Type JA Solar	JA Solar	156	45	620	46.2	13.42	55.34	14.3	22.20%	0.046%	-0.26%	-0.30%	45	2465	1134	\$ 672,000.00

Nombre	Marca	MPP Rango de Voltaje [V]		Fase	Potencia AC [W]	Potencia Aparente [VA]	Corriente de corto circuito [A]	MPP Corriente de entrada [A]	MPPT	Voltaje nominal [V]	Corriente de salida [A]	Eficiencia	Altura [mm]	Ancho [mm]	Profundidad [mm]	Precio \$
Inversor On Grid 6000W Growatt MIN 6000TL-X2	Growatt	80	550	1	6000	6000	16	12.5	2	360	27.2	98.40%	375	350	158	\$ 2,680,316.00
Inversor On Grid 10000W Growatt MIN 10000TL-X2	Growatt	60	550	1	10000	10000	24	16	3	360	45.5	98.10%	425	387	180	\$ 4,381,463.00
Inversor On Grid 10000W Growatt MID 10TL3-XL2	Growatt	200	800	3	10000	11100	45	36	2	550	26.2	98.75%	525	395	222	\$ 6,964,421.00
Inversor On Grid 15000W Growatt MID 15TL3-XL2	Growatt	200	800	3	15000	16600	40	32	4	550	39.4	98.80%	580	435	230	\$ 8,686,250.00
Inversor On Grid Growatt MID 8K TL3-XL2	Growatt	200	800	3	8000	8800	45	36	2	550	21	98.75%	525	395	222	\$ 6,801,245.00
Inversor On Grid Growatt MID 10K TL3-XL2	Growatt	200	800	3	10000	11100	45	36	2	550	26.2	98.75%	525	395	222	\$ 6,801,245.00
Inversor On Grid Growatt MID 25K TL3-XL2	Growatt	200	800	3	25000	27700	40	32	4	550	65.6	98.80%	580	435	230	\$ 9,428,650.00
Inversor On Grid 36000W Growatt MAC 36KTL3-XL	Growatt	200	1000	3	36000	39200	50	46	3	360	94.5	98.80%	680	508	281	\$ 11,287,623.00
Inversor On Grid 60000W Growatt MAX 60KTL3-XL 2	Growatt	180	850	3	60000	66000	50	40	8	550	175	98.80%	970	640	345	\$ 17,490,786.00
Inversor On Grid 75000W Growatt MAX 75KTL3-XL	Growatt	180	850	3	75000	78400	50	40	8	550	196.9	98.80%	970	640	345	\$ 20,033,081.00
Inversor Growatt SPF 3000TL LVM 48V	Growatt	60	115	1	3000	3000	40	120	2	145	80	97%	130	350	455	\$ 2,472,893.00
Inversor Huawei SUN2000-6KTL 6KW	Huawei	90	560	1	6000	6000	18	12.5	2	360	27.3	98.40%	365	365	156	\$ 6,641,791.00
Inversor On Grid Growatt MAX 50 KTL3-XL 2	Growatt	370	600	3	50000	55000	50	40	8	550	145.8	98.80%	970	640	345	\$ 16,698,824.00
Inversor Huawei SUN2000-20KTL -M0 Trifásico	Huawei	200	750	3	20000	22000	40	26	4	360	58	97.60%	640	530	270	\$ 16,985,075.00
Inversor Solar Huawei SUN2000L -60KVA KTL M0	Huawei	200	1000	3	60000	66000	30	22	6	600	95.3	98.90%	1075	555	300	\$ 22,910,448.00
Inversor On Grid Growatt MIN 3000TL-X2	Growatt	80	500	1	3000	3000	16	12.5	2	360	13.6	98.20%	375	350	158	\$ 2,670,331.00
Inversor On Grid 4200W Growatt MIN 4200TL-X2	Growatt	80	550	1	4200	4200	16	12.5	2	360	19	98.40%	375	350	158	\$ 2,166,836.00
Inversor On Grid Fronius Primo UL 3.8kW	Fronius	80	600	1	3800	3800	22.5	18	2	410	36	96.70%	429	627	206	\$ 4,943,953.00
Inversor On Grid Fronius Primo UL 5.0-1 208-240	Fronius	80	600	1	5000	5000	22.5	18	2	420	36	96.90%	511	724	206	\$ 7,704,285.00
Inversor Cargador Híbrido 1000W 24V Voltronic Axpert MKS-ZERO LV	Axpert	95	140	1	1000	1000	60					94%	295	468	120	\$ 1,926,471.00
Inversor Cargador 3000W 48V EOS3000 PHVolt	PHVolt	60	500	1	3000	3000	60	18	2	120	80	93%	315	122	448	\$ 1,861,676.00
Inversor On Grid Growatt MIN 2500TL-X	Growatt	80	500	1	2500	2500	16	12.5	2	360	11.3	98.20%	375	350	158	\$ 2,295,095.00
Inversor Cargador SRNE 3000W 24V 80A	SRNE	90	140	1	3000	3000	40	40	1	120	60	99.90%	378	280	103	\$ 2,561,159.00
Inversor Cargador SRNE 3500W 48V	SRNE	60	115	1	3500	3500	40	50	1	120	80	92%	426	322	124	\$ 3,606,418.00
Inversor Cargador 5000W 48V SRNE	SRNE	120	500	1	5000	5000	40	18	1	120	80	90%	426	322	126	\$ 3,801,509.00
Inversor Cargador 3000W 48V MPPT 80A Must Solar	Must Solar	120	140	1	3000	3000	60		1	120	80	93%	423	247	197	\$ 3,857,143.00
Inversor Growatt MIN 5000TL-X Doble MPPT	Growatt	80	550	1	5000	5000	16	12.5	2	360	22.7	98.40%	375	350	160	\$ 4,678,903.00
Smart Energy Manager 1M Growatt	Growatt	180	540	3	1000000	1000000		5			2000	95%	350	330	107	\$ 7,675,175.00
Inversor Cargador Híbrido 6000W 48V Voltronic Axpert MLV3II	Axpert	110	120	1	6000	6000	80		2	120	60	96%	610	622.6	130	\$ 5,980,054.00
Inversor Híbrido Growatt SPH4000TL BL-US 4000W	Growatt	150	550	2	4000	4000	16	13	2	370	22	97%	263	222	70	\$ 7,924,117.00
Inversor Híbrido Growatt SPH 6000TL BL-US	Growatt	150	550	2	6000	6000	16	13	2	370	27	97%	263	222	70	\$ 9,062,737.00
Inversor On Grid Growatt MAX 125KTL3-XMV	Growatt	180	1000	3	125000	137500	40	32	10	720	165.4	99%	970	640	345	\$ 29,206,043.00
Inversor On Grid Trifásico 50kW Fronius Tauro D	Fronius	580	1000	3	50000	50000	75	87.5	1	650	76	98.50%	755	1109	346	\$ 32,812,500.00
Inversor On Grid Growatt MAX 150KTL3-XMV	Growatt	180	1000	3	150000	165000	40	32	10	720	179.9	99%	970	640	345	\$ 34,261,988.00
Inversor On Grid Trifásico 100kW Fronius Tauro D	Fronius	580	1000	3	100000	100000	75	175	1	650	152	98.50%	755	1109	346	\$ 46,875,000.00
Inversor On Grid Growatt MIC 1500TL-X MPPT	Growatt	50	500	1	1500	1500	16	13	1	250	7.1	97.40%	274	254	138	\$ 1,513,326.00
Inversor Growatt SPF 6000T DVM-G2	Growatt	60	200	1	6000	6000	60	18	1	250	80	97%	365	650	247	\$ 6,986,117.00
Inversor Cargador 1500W 24V MPPT 80A 110V Must Solar	Must Solar	110	120	1	1500	1500	20	16	1	120	80	95%	423	247	197	\$ 2,187,931.00

Nombre	Marca	Voltaje nominal [V]	Capacidad nominal [Ah]	Horas [h]	Grados	Celdas por batería	Corriente de descarga máxima [A]	Corriente de carga máxima [A]	Autodescarga	Peso [Kg]	Precio \$
Batería GEL 12V 300Ah Tensite	Tensite	12	300	100	25	6	2500	75	91%	67.0	\$ 1,498,001.00
Batería GEL 12V 100Ah Tensite	Tensite	12	100	100	25	6	900	18	91%	26.2	\$ 656,743.00
Batería GEL 12V 150Ah Tensite	Tensite	12	150	100	25	6	1200	36	91%	33.6	\$ 862,399.00
Batería GEL 12V 250Ah Tensite	Tensite	12	250	100	25	6	2000	60	91%	57.0	\$ 1,394,606.00
Batería Litio Pylontech US2000 Plus 48V 2.4kWh	Pylontech	48	2400		25	16		50	95%	24.0	\$ 3,983,247.00
Batería Litio 4.8kWh 48V TS-L5000/LV Tensite	Tensite	51.2	600	100	25				90%	45.0	\$ 4,881,866.00
Batería AGM 255Ah 12V MTEK VRL	Mtek	12	255	10	25		1800	75	91%	78.0	\$ 1,791,660.00
Batería Gel 12V 250Ah GreenPoint	GreenPoint	12	200	15	25	6	1500	50		57.0	\$ 2,028,056.00
Batería GEL 12V 150Ah GreenPoint	GreenPoint	12	150	10	25	6	1200	27.5		42.8	\$ 1,198,373.00
Batería AGM 12V 18Ah Tensite	Tensite	12	18	20	25	6	270		91%	5.3	\$ 155,055.00
Batería GEL 12V 40Ah Tensite	Tensite	12	40	100	25	6	380	12	91%	13.5	\$ 422,836.00
Batería GEL 12V 90Ah Tensite	Tensite	12	90	20	25	6	800		91%	26.0	\$ 793,722.00
Batería AGM 12V 150Ah Kaise	Kaise	12	160.5	20	25		1500	45	86%	47.2	\$ 1,226,072.00
Batería Estacionaria OPzV 2V 1110Ah C100 Tensite	Tensite	2	1110	120	25		200	80	94%	65.0	\$ 3,371,666.00
Batería Litio Narada C100 48V 100Ah 4.8kWh	Narada	48	100	100	25	8	100	20		44.0	\$ 8,069,178.00
Batería de litio Growatt AXE LV 5.0L	Growatt	51.2				1		60	92%	42.0	\$ 14,503,927.00

Nombre	Precio
Estructura Poste 30° 1 Panel Solar	\$ 739,330.00
Estructura Poste 30° 2 Paneles Solares	\$ 1,155,203.00
Estructura Cubierta Metálica 2 paneles	\$ 291,031.00
Estructura Cubierta Metálica 3 paneles	\$ 408,779.00
Estructura Teja de barro 1 Panel KHT915	\$ 350,929.00
Estructura Teja de barro 2 Panel KHT915	\$ 421,060.00
Estructura Teja de Barro 3 Panel KHT915	\$ 603,823.00
Estructura Teja de barro 4 Panel KHT915	\$ 828,033.00
Estructura Teja de Barro 5 Panel KHT915	\$ 927,429.00
Estructura Teja de Barro 6 Panel KHT915	\$ 1,110,191.00
Estructura de piso15°-30° 1 Panel CVE915 FALCAT	\$ 303,138.00
Estructura Cubierta Metálica 1 panel	\$ 178,448.00
Estructura Techo Metálico 2 Panel KH915 (ELES)	\$ 291,030.00
Estructura Cubierta Metálica Trapezoidal 1 panel solar Falcat	\$ 298,178.00
Estructura Cubierta Metálica Trapezoidal 2 paneles solares Falcat	\$ 368,310.00
Estructura de piso15°-30° 2 Panel CVE915 FALCAT	\$ 373,269.00
Estructura Cubierta Metálica Trapezoidal 3 paneles solares Falcat	\$ 524,697.00
Estructura Cubierta Metálica 4 paneles KH915	\$ 549,623.00
Estructura Cubierta Metálica 6 paneles	\$ 785,119.00
Estructura de piso15°-30° 5 Panel CVE915 FALCAT	\$ 831,847.00
Estructura Cubierta Metálica 7 Paneles KH917	\$ 947,121.00
Estructura Cubierta Metálica 8 Paneles KH918	\$ 1,062,063.00
Estructura Suelo 15°-30° 7 Paneles Falcat	\$ 1,177,087.00
Estructura Cubierta Metálica 9 Paneles KH919	\$ 1,188,201.00
Estructura Suelo 15°-30° 8 Paneles Falcat	\$ 1,335,953.00
Estructura Cubierta Metálica 10 Paneles KH920	\$ 1,350,189.00
Estructura Suelo 15°-30° 9 Paneles Falcat	\$ 1,494,822.00
Estructura Cubierta Metálica 10 paneles	\$ 1,591,710.00
Estructura Suelo 15°-30° 10 Paneles Falcat	\$ 1,695,136.00
Estructura Suelo 15°-30° 11 Paneles Falcat	\$ 1,854,003.00
Estructura Cubierta Metalica 14 Panel KH915	\$ 1,873,795.00
Estructura Suelo 15°-30° 12 Paneles Falcat	\$ 2,012,871.00
Estructura Cubierta Metalica 15 Panel KH915	\$ 2,156,323.00
Estructura Cubierta Metalica 16 Panel KH915	\$ 2,156,323.00
Estructura Suelo 15°-30° 13 Paneles Falcat	\$ 2,213,186.00
Estructura Cubierta Metalica 17 Panel KH915	\$ 2,276,863.00
Estructura Cubierta Metalica 18 Panel KH915	\$ 2,397,403.00
Estructura Cubierta Metalica 19 Panel KH915	\$ 2,509,139.00
Estructura Suelo 15°-30° 14 Paneles Falcat	\$ 2,455,420.00
Estructura Cubierta Metalica 19 Panel KH915	\$ 2,509,139.00
Estructura Suelo 15°-30° 15 Paneles Falcat	\$ 2,530,920.00

Nombre	Precio
Breaker de Riel AC 1X20A 230V-6KA Lumek	\$ 15,014.00
Breaker de Riel AC 2X25A 230V-6KA Lumek	\$ 29,463.00
Breaker de Riel AC 2X40A 230V-6KA Lumek	\$ 31,575.00
Breaker de Riel AC 2X63A 230V-6KA Lumek	\$ 32,508.00
Breaker de Riel AC 3X25A 400V-6KA Lumek	\$ 44,025.00
Breaker de Riel AC 3X32A 400V-6KA Lumek	\$ 47,107.00
Breaker Solar DC 2X25A 500V PROJJOY	\$ 91,654.00
Breaker Solar DC 2X16A 800V SUNTREE	\$ 103,233.00
Breaker Solar DC 2X16A 500V PROJJOY	\$ 89,290.00
Breaker Solar DC 2X32A 500V PROJJOY	\$ 89,720.00
Breaker Solar DC 2X50A 500V PROJJOY	\$ 91,619.00
Breaker de Riel AC 2X20A 230V-6KA Lumek	\$ 27,851.00
Breaker de Riel AC 2X50A 230V-6KA Lumek	\$ 32,228.00
Breaker de Riel AC 3X40A 400V-6KA Lumek	\$ 35,304.00
Breaker de Riel AC 3X50A 400-6KA Lumek	\$ 46,291.00
Breaker Solar DC 2X20A 800V SUNTREE	\$ 103,233.00
Breaker Solar DC 2X32A 800V SUNTREE	\$ 105,241.00
Breaker Solar DC 4X32A 1200V FEEO	\$ 256,460.00
Breaker Solar DC 4X25 1200V FEEO	\$ 258,814.00