



PYRAMIDI GMBH

PV Panel - 2023.03

Brand	TW Solar	Risen Energy	G&P Sun Energy		
Model	TW415MAP-108-H	RSM40-8-405M	GPM450-465	GPM540-555	GPM540-555 Bifacial DG

Electrical Characteristics (STC)

Max. power	Pm (W)	415	405	450-465	540-555	540-555
Open circuit voltage	Voc (V)	37.23	41.6	41.1-42	49.6-49.91	49.6-50.05
Open circuit current	Isc (A)	13.8	12.4	13.68-13.83	13.93-14.09	13.93-14.14
Voltage @ Pm	Vm (V)	31.46	34.64	34.6-35.2	41.64-41.98	41.63-42.11
Current @ Pm	Im (A)	13.19	11.7	13.01-13.22	12.97-13.22	12.98-13.18
Efficiency	η (%)	21.3	21.1	20.79-21.48	20.93-21.51	20.9-21.5

Mechanical Parameters

Size	(mm)	1722x1134x30	1754x1096x30	1909x1134x35	2278x1134x35	2278x1134x35
Weight	(kg)	20.5	21	24	28.6	31.6
Frame		silver	black	silver	silver	
Backsheet		white	white			2mm semi-tempered glass
Per pallte	pcs	36	36	31	31	31
Per 40'HC	pcs	936	936	744	620	620

Warranty

Materials	(year)	12	12	12	12	12
Power output	(year)	25	25	30	30	30



PYRAMIDI GMBH

PV Panel - 2023.03

Brand	Sunport Power				
Model	QHFH 400-420 (classic)	QHFH 400-420 (full black)	AH7H 535-560	YH6H 585-605	S-FLEX 6 II 365-385

Electrical Characteristics (STC)

Max. power	Pm (W)	400-420	385-405	535-560	585-605	365-385
Open circuit voltage	Voc (V)	45.4-46.2	44.3-45.1	49.5-50.2	40.9-41.7	42.4-43.2
Open circuit current	Isc (A)	11.28-11.54	11.07-11.35	13.63-13.86	18.37-18.57	11.09-11.35
Voltage @ Pm	Vm (V)	37.2-38	36.5-37.3	41.5-42.1	33.8-34.6	34.9-35.7
Current @ Pm	Im (A)	10.75-11.05	10.55-10.86	12.9-13.27	17.31-17.49	10.46-10.78
Efficiency	η (%)	20.5-21.5	19.7-20.7	20.7-21.5	20.7-21.4	20.7-21.8

Mechanical Parameters

Size	(mm)	1889x1035x30	1889x1035x30	2277x1133x35	2172x1303x35	1840x1040x2.5
Weight	(kg)	20.5	20.5	27	30.9	5.7
Frame		silver	black	silver	silver	none
Backsheet		white	black	white	white	white
Per pallte	pcs	36	36	31	31	46
Per 40'HC	pcs	864	864	620	620	1104

Warranty

Materials	(year)	15	15	12	12	12
Power output	(year)	30	30	25	25	25



PYRAMIDI GMBH

Inverter – 2023.03

Brand	Model	Power (W)	Phase	MTTP	Hybrid	Battery	Size (mm)	Weight (kg)
Afore	BNT003KTL	3000	3	2/2	-		510x370x167	16
	BNT004KTL	4000	3	2/2	-		510x370x167	16
	BNT005KTL	5000	3	2/2	-		510x370x167	16
	BNT006KTL	6000	3	2/2	-		510x370x167	16
	BNT008KTL	8000	3	2/2	-		510x370x192	15
	BNT010KTL	10000	3	2/2	-		510x370x192	15
	BNT012KTL	12000	3	2/2	-		510x370x192	15
	BNT015KTL	15000	3	2/3	-		510x370x192	17
	BNT017KTL	17000	3	2/4	-		535x370x192	19
	BNT020KTL	20000	3	2/4	-		535x370x192	19
	BNT025KTL	25000	3	2/4	-		535x370x192	19
	BNT030KTL	30000	3	3/6	-		712x427x232	42
	BNT036KTL	36000	3	3/6	-		712x427x232	42
	BNT040KTL	40000	3	3/6	-		712x427x232	43
	BNT050KTL	50000	3	3/7	-		712x427x232	45
BNT060KTL	60000	3	4/8	-		712x427x232	51	



PYRAMIDI GMBH

Brand	Model	Power (W)	Phase	MTTP	Hybrid	Battery	Size (mm)	Weight (kg)
Afore	AF3K-TH	3000	3	2/2	✓	High	588x426x250	20
	AF4K-TH	4000	3	2/2	✓	High	588x426x250	20
	AF5K-TH	5000	3	2/2	✓	High	588x426x250	20
	AF6K-TH	6000	3	2/2	✓	High	588x426x250	20
	AF8K-TH	8000	3	2/2	✓	High	588x426x250	22
	AF10K-TH	10000	3	2/2	✓	High	588x426x250	22
	AF12K-TH	12000	3	2/2	✓	High	588x426x250	22
	AF15K-TH	15000	3	2/3	✓	High	588x426x250	28
	AF17K-TH	17000	3	2/4	✓	High	588x426x250	28
	AF20K-TH	20000	3	2/4	✓	High	588x426x250	28
	AF25K-TH	25000	3	2/4	✓	High	588x426x250	35
AF30K-TH	30000	3	2/4	✓	High	588x426x250	35	
Other products on request								



PYRAMIDI GMBH

Brand	Model	Power (W)	Phase	MTTP	Hybrid	Battery	Size (mm)	Weight (kg)
Deye	SUN-3.6K-SG03LP1-EU	3600	1	2/2	√	Low	330x580x232	20.5
	SUN-5K-SG03LP1-EU	5000	1	2/2	√	Low	330x580x232	20.5
	SUN-6K-SG03LP1-EU	6000	1	2/2	√	Low	330x580x232	20.5
	SUN-6K-SG04LP3-EU	6000	3	2/2	√	Low	422x702x281	33.6
	SUN-8K-SG04LP3-EU	8000	3	2/2	√	Low	422x702x281	33.6
	SUN-10K-SG04LP3-EU	10000	3	2/3	√	Low	422x702x281	33.6
	SUN-12K-SG04LP3-EU	12000	3	2/3	√	Low	422x702x281	33.6
	SUN-10K-SG01HP3-EU	10000	3	2/2	√	High	408x638x237	30.5
	SUN-15K-SG01HP3-EU	15000	3	2/3	√	High	408x638x237	30.5
	SUN-20K-SG01HP3-EU	20000	3	2/4	√	High	408x638x237	30.5
	SUN-30K-SG01HP3-EU	30000	3	3/6	√	High	527x894x294	75
	SUN-50K-SG01HP3-EU	50000	3	4/8	√	High	527x894x294	75
	SUN300G3-EU-230	300	1	1/1	-		189x184x31.5	2.15
	SUN500G3-EU-230	500	1	1/1	-		189x184x31.5	2.15
	SUN600G3-EU-230	600	1	2/2	-		212x230x40	3.15
	SUN800G3-EU-230	800	1	2/2	-		212x230x40	3.15
	SUN1000G3-EU-230	1000	1	2/2	-		212x230x40	3.15
	SUN1300G3-EU-230	1300	1	4/4	-		267x300x42	5.2
	SUN1600G3-EU-230	1600	1	4/4	-		267x300x42	5.2
	SUN2000G3-EU-230	2000	1	4/4	-		267x300x42	5.2



PYRAMIDI GMBH

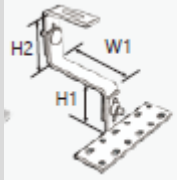
Battery – 2023.03

Brand	Model	Capacity Energy (Wh)	Capacity (Ah)	Nominal Voltage (V)	Type
Sunplus	SP-HV5120-S1	5210	50	102.4	Stacked LiFePo4
	SP-HV5120-S2	10240	50	204.8	Stacked LiFePo4
	SP-HV5120-S3	15360	50	307.2	Stacked LiFePo4
	SP-HV5120-S4	20480	50	409.6	Stacked LiFePo4
	SP-HV5120-S5	25600	50	512	Stacked LiFePo4
	SP-HV5120-S6	30720	50	614.4	Stacked LiFePo4
	SP-HV5120-S7	35840	50	716.8	Stacked LiFePo4
	SP-HV5120-S8	40960	50	819.2	Stacked LiFePo4
Other products on request					
Deye	SUNB-5.0-G01-48-PC	4910	96	51.2	LiFePo4
	Other products on request				



PYRAMIDI GMBH

Mounted System – 2023.03

Brand	Model	Material	Size
Kseng Tile Roof System for 4 Panels	Rail 59	AL6005-T5	2.4m
	Rail Connector	AL6005-T5	0.15m
	End Clamp	AL6005-T5 SUS304/316	40mm
	Mid Clamp	AL6005-T5 SUS304/316	40mm
	Bolt	SUS304/316	M10x25mm
	Hook	SUS304	 H1=45-82 H2=85-100 W1=115
	Screw	SUS304	M6x80mm
	Rail cap	EPDM	
	Other products on request		