



PRODUCT CATALOGUE 2020



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SOLAR INSTALLER CLASS

TRAINING SERIES



Solar Installer Course Outline

- ▶ **Introduction and Solar Energy Generation**
 - What is Solar Power
 - Solar Irradiance vs Insolation Concepts
 - Sun Trajectories / Mag Declination
 - Solar Day Concept
 - Inclination and Azimuth Effect on PV Power
- ▶ **Basic Electrical Concepts**
 - Series and Parallel Circuits
 - AC and DC Power Differences
 - AC Power Harmonics
 - Definition of Energy Demand / Consumption
- ▶ **Solar Panels and Mounting Structures**
 - Photovoltaic Effect
 - Solar Cells Manufacturing and Performance
 - Photovoltaic Modules: How it works?
 - PV Panels Power Production Factors
 - PV Panels Testing / Datasheets and Specs
 - PV Panels Array Design and Configuration
 - Solar Panel Defects, Hot Spots
 - Shading Effect on PV Generation
 - Mounting Systems Review and Selection
- ▶ **PV Array Wiring, Fuses and Protections**
 - Solar Cable Selection and Installation
 - MC4 Connections Procedure
 - Earth and Grounding
 - Surge Protection for PV Installations
- ▶ **Solar Charge Controllers**
 - Solar Controllers Explanation
 - PWM vs MPPT
- ▶ **Batteries and Fuses**
 - Basic Lead Acid
 - Charge and Discharge Concept
 - Depth of Discharge Concept
 - Battery Testing and Datasheets
 - Battery Bank Dimensioning
 - Battery Bank Aux Hardware
 - DC Fuse Dimensioning
- ▶ **Inverters**
 - Basic Inverter Concept
 - Inversion Techniques, MSW / PSW
 - Hybrid / Bidirectional and Grid-tied Inverter
- ▶ **Grid-tied Systems**
 - Solar Production Profile
 - System Dimensioning
 - Power Export Procedures and Regulations
 - Hybrid Networks Solar Diesel
 - Anti Reverse Controllers
- ▶ **Off-grid and Hybrid Systems**
 - Load Estimations
 - Load Measurement
 - Off-grid System Design
 - Energy Efficiency
 - Energy Monitoring

Contact us for more info: solartraining@easypowersolar.co.za

CONTENTS



Solar Panels	Page 4	
Mounting Systems	Page 4	
Pv Junction And String Combiner Boxes	Page 4	
Wiring And Connectors	Page 4	
Solar Chargers	Page 4	
Ac Pump Inverters	Page 4	
Solar Pump Kits	Page 4	
Goodrive100-pv Solar Pump Inverter	Page 4	
Abb Grid-tied Inverters	Page 4	
Hybrid Off-grid Inverters	Page 4	
Ups / Back Up Inverters	Page 4	
Solar Batteries	Page 4	
Battery Cabinets And Accessories	Page 4	
Lithium Battery Systems	Page 4	
Cable Identification & Labels	Page 4	
Cable Routing	Page 4	
Installation Accessories	Page 4	
Our Branch Details	Page 4	



SN-P130

ELECTRICAL PARAMETERS AT STC

DESCRIPTION	SN-P130	SN-P135	SN-P140	SN-P145	SN-P150	SN-P155
Maximum Power (pmax)	130Wp	135Wp	140Wp	145Wp	150Wp	155Wp
Optimum Operating Voltage /Vmp	18.0V	18.0V	18.0V	18.0V	18.0V	18.0V
Optimum Operating Current /Imp	7.22A	7.50A	7.78A	8.06A	8.33A	8.61A
Open Circuit Voltage /Voc	21.6V	21.6V	21.6V	21.6V	21.6V	21.6V
Short Circuit Current /Isc	7.42	7.70	7.98A	8.26A	8.53A	8.81A
Module Efficiency	13.1%	A13.6	14.1%	14.6	15.1%	15.6%
Power Tolerance (%)	±3					
Maximum Series Fuse Rating	15A					
Maximum system voltage	1000 V DC					

STC

AM condition	AM1.5
Intensity of illumination	1000W/m ²
Temperature	25°C

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.45%/°C
Temperature Coefficient of Voc	-0.34%/°C
Temperature Coefficient of Isc	0.050%/°C

GENERAL CHARACTERISTICS

Cell dimension (mm)	156 x 156
Dimensions (mm)	1480x670x35
Number of cells	36(4* 9)
Weight	13Kg
Frame Material	Clear anodized aluminium frame
Thickness of glass	3.2 mm tempered glass
Frame	Anodized aluminum alloy
Laminating material	EVA
Backsheet material	TPT
Junction Box	Ip65

395 W ~ 415 W
CS3W-395 | 400 | 405 | 410 | 415P

NEW



ELECTRICAL DATA | STC*

CS3W	395P	400P	405P	410P	415P
Nominal Max. Power (P _{max})	395 W	400 W	405 W	410W	415W
Optimum Operating Voltage (V _{mp})	38.5V	38.7V	38.9V	39.1V	39.3V
Optimum Operating Current (I _{mp})	10.26A	10.34A	10.42A	10.49A	10.56A
Open Circuit Voltage (V _{oc})	47.0V	47.2V	47.4V	47.6V	47.8V
Short Circuit Current (I _{sc})	10.82A	10.90A	10.98A	11.06A	11.14A
Module Efficiency	17.88%	18.11%	18.33%	18.56%	18.79%
Operating Temperature	-40°C ~ +85°C				
Maximum system voltage	0 ~ + 5 W				
Module Fire Performance	20 A				
Maximum Series Fuse Rating	1500V (IEC/UL) or 1000V (IEC/UL)				
Application Classification	TYPE 1 (UL 1703) or CLASS C (IEC 61730)				
Power Tolerance (%)	CLASS A				

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

CS3W	395P	400P	405P	410P	415P
Nominal Max. Power (P _{max})	395 W	297 W	301 W	304 W	308 W
Optimum Operating Voltage (V _{mp})	35.1 V	35.3 V	35.5 V	35.7 V	35.9 V
Optimum Operating Current (I _{mp})	8.35 A	8.42 A	8.48 A	8.52 A	8.58 A
Open Circuit Voltage (V _{oc})	44.0 V	44.2 V	44.4 V	44.6 V	44.8 V
Short Circuit Current (I _{sc})	8.72 A	8.78 A	8.85 A	8.90 A	8.97 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

SPECIFICATION	DATA
Cell Type	Poly-crystalline
Cell Arrangement	144[2 X (12 X 6)]
Dimensions	2108 X 1048 X 40 mm (83.0 X 41.3 X 1.57 in)
Weight	24.9 kg (54.9 lbs)
Front Cover	3,2 mm tempered glass
Frame	Anodized aluminium alloy, crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 500 mm (19.7 in) (+) / 350 mm (13.8 in) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)*
Connector	T4 series
Per Pallet	27 pieces
Per Container (40' HQ)	594 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

TEMPERATURE CHARACTERISTICS

SPECIFICATION	DATA
Temperature Coefficient (P _{max})	-0.37 % / °C
Temperature Coefficient (V _{oc})	-0.29 % / °C
Temperature Coefficient (I _{sc})	-0.5 % / °C
Nominal Module Operating Temperature	42 ± 3°C

415 W ~ 435 W
CS3W-415|420|425|430|435P



ELECTRICAL DATA | STC*

CS3W	415P	420P	425P	430P	435P
Nominal Max. Power (P _{max})	415 W	420 W	425 W	430 W	435 W
Optimum Operating Voltage (V _{mp})	39,3 V	39,5 V	39,7 V	39,9 V	40,1 V
Optimum Operating Current (I _{mp})	10,56 A	10,64 A	10,71 A	10,78 A	10,85 A
Open Circuit Voltage (V _{oc})	47,8 V	48,0 V	48,2 V	48,4 V	48,6 V
Short Circuit Current (I _{sc})	11,14 A	11,26 A	11,29 A	11,32 A	11,35 A
Module Efficiency	18,79%	19,01%	19,24%	19,46%	19,69%
Operating Temperature	-40°C ~ +85°C				
Maximum system voltage	1500V (IEC/UL) or 1000V (IEC/UL)				
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)				
Maximum Series Fuse Rating	20 A				
Application Classification	CLASS A				
Power Tolerance (%)	0 ~ + 5 W				

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

CS3W	415P	420P	425P	430P	435P
Nominal Max. Power (P _{max})	308 W	312 W	316 W	320 W	323 W
Optimum Operating Voltage (V _{mp})	36,5 V	36,7 V	36,9 V	37,1 V	37,3 V
Optimum Operating Current (I _{mp})	8,45 A	8,51 A	8,57 A	8,62 A	8,68 A
Open Circuit Voltage (V _{oc})	44,8 V	45,0 V	45,2 V	45,4 V	45,6 V
Short Circuit Current (I _{sc})	8,99 A	9,08 A	9,11 A	9,13 A	9,16 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

SPECIFICATION	DATA
Cell Type	Poly-crystalline
Cell Arrangement	144[2 X (12 X 6)]
Dimensions	2108 X 1048 X 40 mm (83.0 X 41.3 X 1.57 in)
Weight	24.9 kg (54.9 lbs)
Front Cover	3,2 mm tempered glass
Frame	Anodized aluminium alloy, crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 500 mm (19.7 in) (+) / 350 mm (13.8 in) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)*
Connector	T4 series or H4 UTX or MC4-EVO2
Per Pallet	30 pieces
Per Container	(40' HQ) 594 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives

TEMPERATURE CHARACTERISTICS

SPECIFICATION	DATA
Temperature Coefficient (P _{max})	-0.37 % / °C
Temperature Coefficient (V _{oc})	-0.29 % / °C
Temperature Coefficient (I _{sc})	-0.5 % / °C
Nominal Module Operating Temperature	42 ± 3°C

CS3K-295|300|305|310P (1000 V / 1500 V)



ELECTRICAL DATA | STC*

CS3K	295P	300P	305P	310P
Nominal Max. Power (P _{max})	295 W	300 W	305 W	310 W
Optimum Operating Voltage (V _{mp})	32.5 V	32.7 V	32.9 V	33.1 V
Optimum Operating Current (I _{mp})	9.08 A	9.18 A	9.28 A	9.37 A
Open Circuit Voltage (V _{oc})	39.1 V	39.3 V	39.5 V	39.7 V
Short Circuit Current (I _{sc})	9.57 A	9.65 A	9.73 A	9.81 A
Module Efficiency	17.75%	18.05%	18.36%	18.66%
Operating Temperature	-40°C ~ +85°C			
Maximum system voltage	1500V (IEC/UL) or 1000V (IEC/UL)			
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)			
Maximum Series Fuse Rating	30 A			
Application Classification	CLASS A			
Power Tolerance (%)	0 ~ + 5 W			

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

CS3K	295P	300P	305P	310P
Nominal Max. Power (P _{max})	219 W	223 W	227 W	230 W
Optimum Operating Voltage (V _{mp})	30.2 V	30.4 V	30.6 V	30.8 V
Optimum Operating Current (I _{mp})	7.26 A	7.34 A	7.42 A	7.49 A
Open Circuit Voltage (V _{oc})	36.7 V	36.8 V	37.0 V	37.2 V
Short Circuit Current (I _{sc})	7.72 A	7.78 A	7.85 A	7.91 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

SPECIFICATION	DATA
Cell Type	Poly-crystalline
Cell Arrangement	120 [2 X (10 X 6)]
Dimensions	(65.9 X 39.1 X 1.38 in) 1675 X 992 X 35 mm
Weight	18.5 kg (40.8 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-); landscape: 1160 mm (45.7 in)*
Connector	T4 series or H4 UTX or MC4-EVO2
Per Pallet	30 pieces
Per Container	(40' HQ) 840 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives

TEMPERATURE CHARACTERISTICS

SPECIFICATION	DATA
Temperature Coefficient (P _{max})	-0.37 % / °C
Temperature Coefficient (V _{oc})	-0.29 % / °C
Temperature Coefficient (I _{sc})	-0.5 % / °C
Nominal Module Operating Temperature	42 ± 3°C

CS3U-355|360|365|370P (1000 V / 1500 V)

NEW

ELECTRICAL DATA | STC*

CS3U	355P	360P	365P	370P
Nominal Max. Power (Pmax)	355 W	360 W	365 W	370 W
Optimum Operating Voltage /Vmp	39.4 V	39.6 V	39.8 V	40.0 V
Optimum Operating Current /Imp	9.02 A	9.10 A	9.18 A	9.26 A
Open Circuit Voltage /Voc	46.8 V	47.0 V	47.2 V	47.4 V
Short Circuit Current /Isc	9.59 A	9.67 A	9.75 A	9.83 A
Module Efficiency	17.89%	18.15%	18.40%	18.65%
Operating Temperature	-40°C ~ +85°C			
Power Tolerance (%)	0 ~ + 5 W			
Maximum Series Fuse Rating	0 A			
Maximum system voltage	1500V (IEC/UL) or 1000V (IEC/UL)			
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)			
Application Classification	CLASS A			

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

CS3U	355P	360P	365P	370P
Nominal Max. Power (Pmax)	264 W	268 W	271 W	275 W
Optimum Operating Voltage /Vmp	36.6 V	36.8 V	37.0 V	37.2 V
Optimum Operating Current /Imp	7.21 A	7.27 A	7.34 A	7.40 A
Open Circuit Voltage /Voc	43.9 V	44.1 V	44.3 V	44.4 V
Short Circuit Current /Isc	7.74 A	7.80 A	7.87 A	7.93 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.



MBB

5BB

MECHANICAL DATA

SPECIFICATION	DATA
Cell Type	Poly-crystalline
Cell Arrangement	144[2 X (12 X 6)]
Dimensions	2000 X 992 X 35 mm (78.7 X 39.1 X 1.38 in)
Weight	22.5 kg (49.6 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy, crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-); landscape: 1250 mm (49.2 in); leap-frog connection: 1670 mm (65.7 in)*
Connector	T4 series or H4 UTX or MC4-EVO2
Per Pallet	30 pieces
Per Container (40' HQ)	660 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

TEMPERATURE CHARACTERISTICS

SPECIFICATION	DATA
Temperature Coefficient (Pmax)	-0.37 % / °C
Temperature Coefficient (Voc)	-0.29 % / °C
Temperature Coefficient (Isc)	0.5 % / °C
Nominal Module Operating Temperature	42 ± 3°C

TILED ROOF SERIES



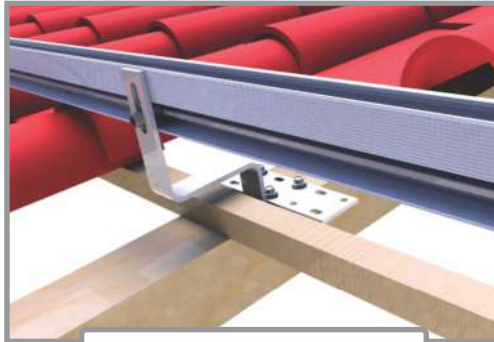
END CLAMPS



MID CLAMPS



ROOF SUPPORT



HORIZONTAL BEAM MOUNT



VERTICAL BEAM MOUNT



EXTENDED HORIZONTAL BEAM MOUNT



EPS-RH 01 AS



EPS-RH 02 AS

PITCHED ROOF - TILED	
CODE	DESCRIPTION
EPS-RH 01 AS	Roof Hooks - Assembly S/S Landscape
EPS-RH 02 AS	Roof Hooks - Assembly S/S Portrait
EPS-TS HSR6.2	High Strength Rail - TOP and Side
EPS-TB HSR6.2	High Strength Rail - TOP and Bottom
EPS-END AS	End Clamp Assembly
EPS-MID AS	Middle Clamp Assembly
SPL-100 AS	Splice Kit Assembly



EPS-RH 01 AS



EPS-RH 02 AS



EPS-TB HSR6.2



EPS-TS HSR6.2



EPS-END AS

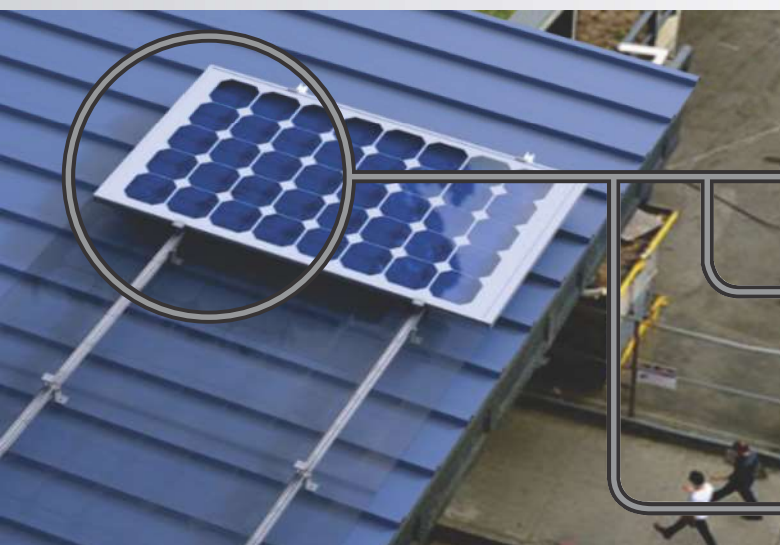


SPL-100 AS



EPS-MID AS

TILED ROOF SERIES



KLIPROCK ROOF



IBR ROOF

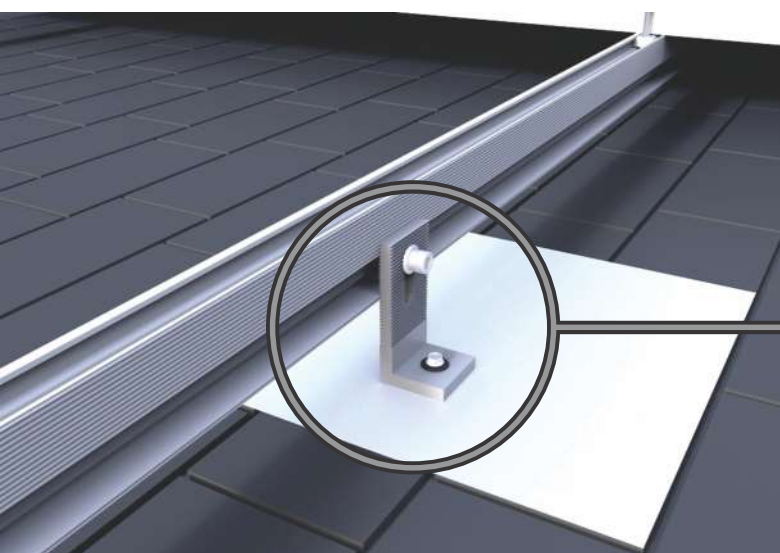


CORRUGATED



CODE	DESCRIPTION
EPS-HB 10 x 200mm	Hanger Bolt
EPS-LBRK AS	L-Foot Assembly
EPS-KTPV 01 AS	KlipLok Assembly - Slotted (Used with Top and Bottom Rail)
SPL-100 AS	Splice Kit Assembly
EPS-END AS	End Clamp Assembly
EPS-MID AS	Middle Clamp Assembly
EPS-TS-HSR6.2	High Strength Rail Top and Side
EPS-TB-HSR6.2	High Strength Rail Top and Bottom

HARVEY TILE / SLATE ROOF SERIES



SFS-FP-280



EPS-LBRK AS



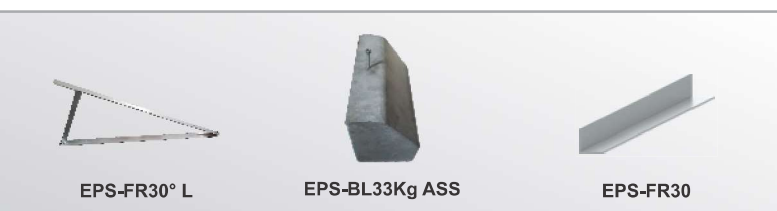
SLATE ROOF

CODE	DESCRIPTION
SFS-FP-280	Flashing Plate Slate Roof
EPS-LBRK-AS	L-Foot Assembly
EPS-TS-HSR6.2	High Strength Rail Top and Side

FLAT ROOF (TILTED) SYSTEM



CODE	DESCRIPTION
EPS-FR30° L	Tilting Frame 30° Portrait
EPS-FR26° L	Tilting Frame 26° Portrait
EPS-FR20° L	Tilting Frame 20° Portrait
EPS-FR15° L	Tilting Frame 15° Portrait
EPS-BL33Kg ASS	Ballast Assembly-Flat Roofs
EPS-FR30	40 x 40 x 3mm Aluminium Angle Line



GROUND MOUNTED



CODE	DESCRIPTION
EPS-MID AS	Middle Clamp Assembly
EPS-END AS	End Clamp Assembly
EPS-TB-HSR6.2	High Strength Rail Top and Side

PV JUNCTION AND STRING COMBINER BOXES



2IN1OUT



3IN1OUT



5IN1OUT



4IN1OUT



1IN1OUT



2IN1OUT



3IN1OUT



6IN1OUT



100NH0G



200NH0G



DCH100A



(DCI125A)



10AFUSE



10 / 20 FUSE HOLDER



(SPDT2)



(DCI250A)

PV JUNCTION AND STRING COMBINER BOX

CODE	DESCRIPTION	STRINGS	VOLTAGE	ISC	IP	SPID	DIMS(MM)
BYTRS32	Isolator w/fuse (15 or 30 Amps)	1	600 VDC	32A	Ip67	15A DC Fuse	130x170x70
2IN1OUT	Combiner Box w/Fuse/SPD/ISO	2	1000 VDC	32A	IP65	TYPE2	285x210x120
3IN1OUT	Combiner Box w/Fuse/SPD/ISO	3	1000 VDC	63A	IP65	TYPE2	225x305x130
4IN1OUT	Combiner Box w/Fuse/SPD/ISO	4	1000 VDC	63A	IP65	TYPE2	225x305x130
4IN2OUT	Combiner Box w/Fuse/SPD/ISO	4	1000 VDC	63A	IP65	TYPE2	225x305x131
5N1C01	Combiner Box w/Fuse/SPD/ISO	5	1000 VDC	63A	IP65	TYPE2	285x570x185
6IN1OUT	Combiner Box w/Fuse/SPD/ISO	6	1000 VDC	63A	Ip65	TYPE2	285x570x185

CODE	DESCRIPTION	STRINGS	VOLTAGE	IP	SPID
ACCM01	AC Combiner box 4IN1OUT 20Kva	4	230VAC	IP56	TYPE1
AC 2IN1	AC Combiner box 2IN1OUT 10Kva	2	230VAC	IP56	TYPE1

CODE	DESCRIPTION
DCCM01	DC Combiner box
ACCM02	AC Combiner box 2
DCSU01	DC Surge protection device 40KA

DC FUSES

CODE	DESCRIPTION	FEATURES	VOLTAGE MAX
DCH100A	DC Fuse Holder 100A	NH1G Fuse / Quick Actions	250VDC
DCH200A	DC Fuse Holder 200A	NH00G Fuse / Quick Actions	250VDC
200NH1G	200Amp DC Fuse	NH1G	48VDC
100NH00G	100Amp DC Fuse	NH00G	48VDC
ADLE01	PV Adler Fuse 10A	14x51mm / 10kA	1000 VDC
ADLE02	PV Adler Fuse 20A	14x51mm/10kA	1000 VDC
ADLE03	PV Adler Fuse 30A	14x51mm / 10kA	1000 VDC
1A FUSE	Fuse 1A	14x51mm / 10kA	1000 VDC

DC ISOLATORS

CODE	DESCRIPTION	RATING
DCH125A	125A DC Isolator 4 Pole	1200 VDC
DCI250A	250A DC Isolator 4 Pole	1200 VDC





SOLAR-PV-C - 4MM / 6MM



YF-1001



YF-1001-T



YF-1001-P



MT4860



ML2430



ML2440

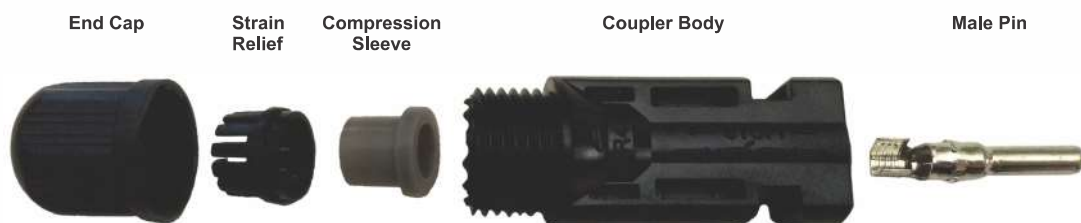


NV12V020E



NV12V030

Male MC4 Coupler (Negative -)



CABLE - MALE MC4

COUPLER (NEGATIVE -)

CODE	DESCRIPTION	TUV	VOLTAGE
SOLAR-PV-C - 4MM	4mm 1000 VDC Black	Yes	1000 VDC
SOLAR-PV-C - 6MM	6mm 1000 VDC Black	Yes	1000 VDC

MC4 CONNECTOR

CODE	DESCRIPTION	TRV	VOLTAGE
YF-1001	Line MC4 Connector (Pair + Inserts)	Yes	1000 VDC
YF-1001-P	PV Panel MC4 Connector (Pair + Inserts)	Yes	1000 VDC
YF-1001-T	MC4 T-Branch Connector (Pair)	Yes	1000 VDC

SOLAR CHARGERS

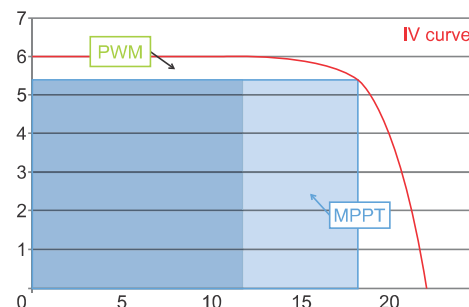
MPPT CHARGER

CODE	DESCRIPTION	TYPE	CHARGING CURRENT	DC BUS	PV INPUT RANGE
MT4860	EasyCharge Series Solar Charger	MPPT	60 AMP	36 / 48 VDC	100 VDC
ML2430	EasyCharge Series Solar Charger	MPPT	30 AMP	12 / 24 VDC	100 VDC
ML2440	EasyCharge Series Solar Charger	MPPT	40 AMP	12 / 24 VDC	100 VDC



FEATURES

- 12V / 24V auto recognition
- MPPT efficiency 99.9%
- Maximum input voltage: 150V
- Digital display
- Connectors for external LCD display



PWM CHARGER

CODE	DESCRIPTION	TYPE	CHARGING CURRENT	DC BUS	PV INPUT RANGE
NV12V020E	20 AMP, Solar Charge Controller	PWM	20A	12 / 24 VDC	50 VDC
NV12V030	30 AMP, Solar Charge Controller	PWM	30A	12 / 24 VDC	50 VDC

Includes external temperature sensor.



Goodrive100-PV Series



IP20

GOODRIVE100-PV SOLAR PUMP INVERTER IP20

SERIES	CODE / MODEL	RATED OUTPUT POWER (KW)	RATED INPUT CURRENT (A)	RATED OUTPUT CURRENT (A)
-Ss2 Single-phase, 220V input/output (0.4-2.2 kW)	GD100-0R4G-SS2-PV	0.4	6.5	4.2
	GD100-0R7G-SS2-PV	0.75	9.3	7.2
	GD100-1R5G-SS2-PV	1.5	15.7	10.2
	GD100-2R2G-SS2-PV	2.2	24	14
-S2 Single-phase, 220V input (0.4-2.2 kW)	GD100-0R4G-S2-PV	0.4	6.5	2.5
	GD100-0R7G-S2-PV	0.75	9.3	4.2
	GD100-1R5G-S2-PV	1.5	15.7	7.5
	GD100-2R2G-S2-PV	2.2	24	10
-2 Three-phase, 220V (4-7.5kW)	GD100-004G-2-PV	4	17	16
	GD100-5R5G-2-PV	5.5	25	20
	GD100-7R5G-2-PV	7.5	33	30
-4 Three-phase, 380V (0.75-37kW)	GD100-0R7G-4-PV	0.75	3.4	2.5
	GD100-1R5G-4-PV	1.5	5.0	4.2
	GD100-2R2G-4-PV	2.2	5.8	5.5
	GD100-004G-4-PV	4.0	13.5	9.5
	GD100-5R5G-4-PV	5.5	19.5	14
	GD100-7R5G-4-PV	7.5	25	18.5
	GD100-011G-4-PV	11	32	25
	GD100-015G-4-PV	15	40	32
	GD100-018G-4-PV	18.5	47	38
	GD100-022G-4-PV	22	56	45
	GD100-030G-4-PV	30	70	60
	GD100-037G-4-PV	37	80	75
	GD100-045G-4-PV	45	94	92
	GD100-055G-4-PV	55	128	115
	GD100-075G-4-PV	75	160	150
	GD100-090G-4-PV	90	190	180
	GD100-110G-4-PV	110	225	215
GPRS for GD100-PV	ICA200-01G	-	-	-
Booster Module	PP100-3R3-PVA	3,2KW	12	-
Single-phase	BPD0K7TN-AC	0,75	9	5.1
	BPD1K5TN-AC	1,5	12	10.2
	BPD2K2TN-AC	2,2	12	14
	BPD004TN-AC	4	20	25
	OCL2-004-4	0,75Kw choke	9.3	7.2
	OCL2-5R5-4	1,5Kw choke	15.7	10.2
Three-phase	OCL2-1R5-4	1,5Kw choke	5.0	4.2
	OCL2-2R2-4	2,2Kw choke	5.8	5.5
Single-phase	OCL2-7R5-4	2,2Kw choke	24	10
Three-phase	OCL2-5R5-4	5,5Kw choke	19.5	14
	OCL2-7R5-4 (7.5kw)	7,5Kw choke	25	18.5



NEW PRODUCTS



PRO-33.0-TL-OUTD

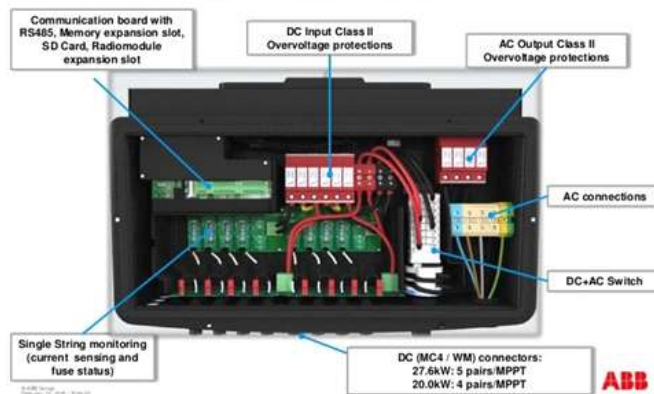


PVI-10.0/12.5-TL-OUTD
10 to 12.5 kW



REACT-3.6/4.6-TL
3.6 to 4.6 kW

PV inverters for residential & commercial applications TRIO-20.0/27.6-TL(-S2)(-S2F)(-S2X)



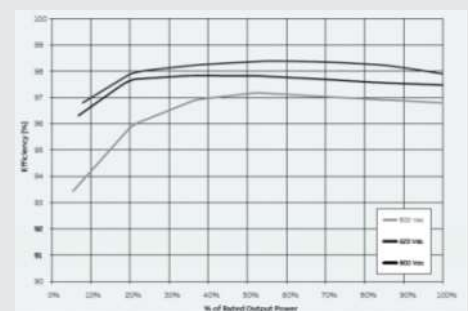
3 PHASE INVERTERS

CODE	DESCRIPTION	DC Input Voltage Range Parallel Configuration	Maximum AC Output Power	Maximum Efficiency
TR5801	TRIO 5.8-TL-OUTD-S	320...800 V	5800 W	98.00%
TR8501	TRIO 8.5-TL-OUTD-S	320...800 V	8500 W	98.00%
TR2001	TRIO-20.0/27.6-TL-OUTD	440...800 V	22000 W	98.20%
TR2701	TRIO 27.6-TL-OUTD-S2X-400	500...800 V	30000 W	98.20%
TR5003	TRIO 50.0-TL-OUTD-S2X-400	480...800 V	50000 W	98.30%

High efficiency at all output levels

Flat efficiency curves ensure high efficiency at all output levels guaranteeing consistent and stable performance across the entire input voltage and output power range.

This device has an efficiency rating of up to 98.2%. The very wide input voltage range makes the inverter suitable for installations with reduced string size.



Efficiency curves of TRIO-20.0-TL-OUTD

Power and productivity
for a better world™



PVI-3.0/3.6/4.2



PVI-5000/6000-TL-OUTD



UNO-2.0/3.0/3.6/4.2-TL-OUTD
(EMEA & APAC)



UNO-DM-6.0-TL-PLUS

- Translormer-less (TL) topology
- Separated DC compartment
- Separated AC compartment
- Offered in multiple versions 10 include:
 - String fuses (monitored)
 - DC and AC disconnect switch
 - DC and AC Surge arrestors
- Forced at cooling with field replaceable fan tray
- Grounding Kit option
- Multi-standard for world wide availability

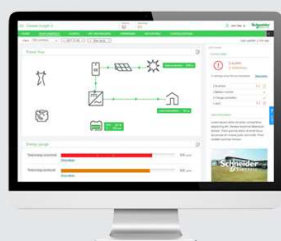


SINGLE PHASE INVERTERS- SINGLE MPPT

CODE	MODEL	DC Input Voltage Range Parallel Configuration	Maximun AC Output Power	Maximun Efficiency
PV3001	PVI 3.0-TL-OUTD-S	160...530 V	3300 W	96.80%
PV3601	PVI 3.6-TL-OUTD-S	120...530 V	4000 W	96.80%
PVI 4.2-TL-OUTD-S	PVI 4.2-TL-OUTD-S	140...530 V	4600 W	96.80%
PV5001	PVI-5000-TL-OUTD-S	150...530 V	5000 W	97.00%
PV6001	PVI-6000-TL-OUTD-S	180...530 V	6000 W	97.00%
PVI 10.0-TL-OUTD-FS	PVI 10.0-TL-OUTD-FS	300...750 V	11000 W	97.80%
ABBP301	PVI 12.5-TL-OUTD-FS	360...750 V	13800 W	97.80%







HYBRID INVERTER / CHARGER SYSTEMS

CONEXT™ XW PRO

PART NUMBER	PRODUCT NAME	DESCRIPTION
865-6848-21	Conext™ XW Pro 120/240V	• 6800 W output power (continuous) at 25°C • 12000 W overload 60 sec • 140 A maximum output charge current • 48 VDC nominal battery voltage

CONEXT™ XW+

PART NUMBER	PRODUCT NAME	DESCRIPTION
865-6848-01	Conext™ XW+ 6.8 kW 120/240V	• Supports single-phase and stackable three-phase operations • 6800 W output power (continuous) at 25°C • 12000 W overload 60 sec • 140 A maximum output charge current • 48 VDC nominal battery voltage

CONEXT™ XW+

PART NUMBER	PRODUCT NAME	DESCRIPTION
865-4024-21	Conext™ SW 4024 120/240V	• 4000 W overload 30 min • 7000 W overload 5 sec • 90 A maximum output charge current • 24 VDC nominal battery voltage
865-4048-21	Conext™ SW 4048 120/240V	• 4400 W overload 30 min • 7000 W overload 5 sec • 45 A maximum output charge current • 48 VDC nominal battery voltage

MONITORING AND CONTROL SOLUTIONS FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS

CONEXT™ INSIGHT 2

DESCRIPTION

- Easily analyze your energy use and production
- Optimize your operations with powerful remote troubleshooting
- Minimize truck rolls and reduce installers travel expenses
- Configure your key operating parameters to extend equipment life
- Monitor and analyze a single site or your complete portfolio of sites
- Drill-down from a multi-sites overview to the detailed diagnosis of specific equipment on site
- Manage data of all key installed devices from a single login

CONEXT™ GATEWAY

PART NUMBER	PRODUCT NAME	DESCRIPTION
865-0329	Conext™ Gateway	• Compatible with XW Pro, XW+, SW and Conext™ accessories • Supports Xanbus, Canbus, and Modbus for connectivity to range of SE solar products • Supports Wi-Fi and Ethernet for easy connectivity



CHARGE CONTROLLER SOLUTIONS

CONEXT™ MPPT CHARGE CONTROLLER SOLUTIONS

PART NUMBER	PRODUCT NAME	DESCRIPTION
865-1030-1	Conext™ MPPT 60 150 Charger Controller	• 3500 W maximum output power (at nominal 48 V) • 12, 24, 36, 48, 60 V nominal battery voltage • 150 V max. PV array open circuit voltage including temperature correction factor • Compatible with XW Pro, XW+ and SW
865-1032	Conext™ MPPT 80 600 Charger Controller	• 4800 W maximum output power (at nominal 48 V) • 24 and 48 V (nominal battery voltage (default is 48 V) • 600 V max. PV array open circuit voltage including temperature correction factor • Compatible with XW Pro, XW+ and SW
865-1036	MPPT Disconnect RS	• Accessory for MPPT 60/80 charge controllers for NEC 2017 compliance • PV disconnect, rapid shutdown transmitter, and arc fault detection (UL1699B)
865-1039	RS Initiator Switch	• Outdoor rated initiator switch for the MPPT Disconnect RS

ACCESSORIES

ACCESSORIES FOR XW PRO, XW+ AND SW SYSTEMS

PART NUMBER	PRODUCT NAME	DESCRIPTION
865-1155-01	Conext™ Configuration Tool	• PC-based software tool to simplify system configuration and reduce installation time. • Compatible with XW Pro, XW+, and SW, as well as MPPT charge controllers.
865-1050-01	Conext™ System Control Panel (SCP)	• Control panel to set up and monitor the Conext inverter charger system. • Compatible with XW Pro, XW+, and SW, as well as MPPT charge controllers.
865-1060-01	Conext™ Automatic Generator Start (AGS)	• Automatically activate or stop a generator in response to changing power requirements. • Compatible with XW Pro, XW+, and SW, as well as MPPT charge controllers.
865-1080-01	Conext™ Battery Monitor	• Indicates hours of battery based runtime and determines battery bank state of charge. • Compatible with XW Pro, XW+ and SW, as well as MPPT charge controllers.



ACCESSORIES



SNMP Web Card



SNMP Web Box

AXPERT MKS OFF-GRID INVERTER

Model	Axpert MKS 3K-48	Axpert MKS 4K-48	Axpert MKS 5K-48	Axpert MKS II 5K	Axpert MKS 5KP-24
Rated Power	3000VA/ 3000W	4000VA/ 4000W	5000VA/ 5000W	5000VA/ 5000W	5000VA/ 4000W
Parallel Capability	No	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
INPUT					
Voltage	230 VAC				
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)				
Voltage	No	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
OUTPUT					
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%				
Surge Power	6000VA	8000VA	10000VA		
Efficiency (Peak)	93%			90%	
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)				
Waveform	Pure sine wave				
BATTERY & AC CHARGER					
Battery Voltage	48 VDC				24 VDC
Floating Charge Voltage	54 VDC	54 VDC	(Optional 64 VDC, please check with sales)	54VDC	Default: 24 VDC, Max: 30 VDC
Overcharge Protection	62 VDC	60 VDC	(Optional 66 VDC, please check with sales)	63VDC	30 VDC
SOLAR CHARGER & AC CHARGER					
Maximum PV Array Power	900 W	4000W		4500W	2000W
MPPT Range @ Operating Voltage	60VDC ~ 88VDC	60VDC ~115VDC		120VDC~430VDC	30 VDC~115 VDC
Max. PV Array Open Circuit Voltage	102VDC	145VDC		450VDC	145 VDC
Maximum Solar Charge Current	18A	80A		80A	80A
Maximum AC Charge Current	15A	60A		80A	60A
Maximum Charge Current	33A	140A		80A	140A
Maximum Efficiency	98%				
Standby Power Consumption	2 W				
PHYSICAL					
Dimension, D x W x H (mm)	100 x 272 x355	120 x 295 x 468			180 x 310 x 475
Net Weight (kgs)	7.4	12.5	13.5	11	12.5
OPERATING ENVIRONMENT					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	0°C to 55°C				
Storage Temperature	-15°C to 60°C				

1Mw	 NA CE GB 600-900Vdc PWS1-500KTL-EX	 600-1000Vdc PWS1-500KTL-P-EX
500kW	 NA CE 500-850Vdc PWS1-250K-NA/EU	
250kW		
150kW	 NA CE 500-850Vdc PWS1-150K-NA/EU	
100kW	 NA CE 500-850Vdc PWS1-100K-NA/EU	
50kW		
30kW	 NA CE 500-850Vdc PWS1-50K-NA/EU	
15kW	 NA 250-750Vdc PWS2-30K-NA/EU	STORAGE ONLY PCS  NA 250-500/250-900Vdc PCS-DC  CE VDE AU PWS2-M-30K-EX

PV+STORAGE PCS



MEA

250-850Vdc
PWS1-125K-TH



AU

250-520Vdc
PWG2-100K-NA/EU



AU

250-520Vdc
PWG2-50K-NA/EU





PDS 1-400K

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"



PWG2-50/100K - NA | PGW2-50/100K-EX

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"



PWG2-150K-EX

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"


PWS 1-50K-NA

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"

PSW 1-100K-NA

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"

PWS 1-250K-NA

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"



PWS 1-500K TL-EX | PWS 1-500K TL-NA

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"

PDC-400K

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"

FRONT WIRING EMS-A7 MICRO-GRID CONTROLLER

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"



SINEXCEL ACTIVE HARMONIC FILTER

FOUNDER AND LEADER OF AHF MODULAR TECHNOLOGY

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"

STS MODULE

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"

STS CABINET

FOUNDER AND LEADER OF AHF MODULAR TECHNOLOGY

CODE	DESCRIPTION	VOLTAGE	POWER	MAX FLOW RATE	MAX HEAD	OUTLET SIZE	DIAMETER
4TSSC3.5-24-36	300W Pump	36	500	3.5	24	1.25"	4"
4TSSC4-62-48	500W Pump	48	500	4	62	1.25"	4"
4TSSC75-34-48	500W Pump	48	500	7.5	30	1.25"	4"
4TSSC18-29-110	1000W Pump	110	1000	18	29	2"	4"
4TSSC12-53-110	1000W Pump	110	1000	12	53	2"	4"
4TSSC12-77-150	1500W Pump	150	1500	12	77	2"	4"
4TSSC18-60-150	1500W Pump	150	1500	18	60	2"	4"
4TSSC7.5-175-220	2200W Pump	220	2200	7.5	175	1.5"	4"
4TSSC20-47-220	2200W Pump	220	2200	20	47	2"	4"
4TSSC12-140-300	3000W Pump	300	3000	12	140	2"	4"
4TSSC20-80-300	3000W Pump	300	3000	20	80	2"	4"



INFINISOLAR 2-10KW ON-GRID INVERTER WITH ENERGY STORAGE

Model SKU/CODE	InfiniSolar 2kW	InfiniSolar Plus 3KW	InfiniSolar Plus 5KW	InfiniSolar 3Phase 10kW
Max. PV INPUT POWER	2250W	4500W	10000W	14850W
Rated Output Power	2000W	3000W	5000W	10000W
Maximum Charging Power	1200W	1200W	4800W	9600W

GRID TIE OPERATION

PV INPUT DC				
Nominal DC Voltage/Max. DC Voltage	300 VDC/350 VDC	360 VDC/500 VDC	720 VDC/900 VDC	720 VDC/900 VDC
Start-up Voltage/Initial Feeding Voltage	80 VDC/120 VDC	116 VDC/150 VDC	225 VDC/250 VDC	320 VDC/350 VDC
MPP Voltage Range	120 VDC~320 VDC	250 VDC~450 VDC	250 VDC~850 VDC	400 VDC~800 VDC
Number of MPP Trackers/ Maximum Input Current	1/1x15A	1/1x18A	2/2x10A	2/2x18.6A
GRID OUTPUT AC				
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC	208/220/230/240 VAC	230 VAC (P-N)/ 400 VAC (P-P)
Output Voltage Range	88 - 127 VAC*	184 -265 VAC*	184 -265 VAC*	184 - 265 VAC* / phase
Nominal Output Current	18A	13A	21A	14.5A per phase
Power Factor	>0.99	>0.99	>0.99	>0.99
Maximum Conversion Efficiency (DC/AC)	95%	96%	96%	96%

OFF-GRID, HYBRID OPERATION

AC INPUT				
AC start-up Voltage/Auto Restart Voltage	60-70 VAC/85 VAC	120-140 VAC/180 VAC	120-140 VAC/180 VAC	120-140 VAC / phase 180 VAC per phase
Acceptable Input Voltage Range	80-130 VAC	170-280 VAC	170-280 VAC	170-280 VAC per phase
Max. AC Input Current	30A	30A	40A	40A
PV INPUT (DC)				
Max. DC Voltage	350 VDC	500 VDC	900 VDC	900 VDC
MPP Voltage Range	150 VDC~320 VDC	250 VDC~450 VDC	250 VDC~850 VDC	400 VDC~800 VDC
Number of MPP Trackers/Max. Input Current	1/1x15A	1/1x18A	2/2x10A	2/2x18.6A
BATTERY Mode Output (AC)				
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/ 240 VAC	202/208/220/230/ 240 VAC	230 VAC (P-N)/ 400 VAC (P-P)
Output Waveform	Pure Sinewave	Pure Sinewave	Pure Sinewave	Pure Sinewave
Efficiency (DC to AC)	90%	93%		91%

SOLAR BATTERIES



HGX12-80



HGX12-100



HGX12-200



OPZV2-600

DEEP CYCLE GEL

CODE	DESCRIPTION	VOLTAGE	AH	MAX CHARGE CURRENT
HGX12-80	Deep Cycle Gel Battery	12V	80AH	20 AMPS
HGX12-100	Deep Cycle Gel Battery	12V	100AH	25 AMPS
HGX12-150	Deep Cycle Gel Battery	12V	150AH	37.5 AMPS
HGX12-200	Deep Cycle Gel Battery	12V	200AH	50 AMPS
HGX12-250	Deep Cycle Gel Battery	12V	250AH	62.5 AMPS

GEL OPZV

CODE	DESCRIPTION	VOLTAGE	AH	MAX CHARGE CURRENT
OPZV2-600	Gel Type Battery	2V	600AH	120 AMPS
OPZV2-800	Gel Type Battery	2V	800AH	160 AMPS
OPZV2-1000	Gel Type Battery	2V	1000AH	200 AMPS
OPZV2-1200	Gel Type Battery	2V	1200AH	240 AMPS
OPZV2-1500	Gel Type Battery	2V	1500AH	300 AMPS
OPZV2-2000	Gel Type Battery	2V	2000AH	400 AMPS
OPZV2-2500	Gel Type Battery	2V	2500AH	500 AMPS
OPZV2-3000	Gel Type Battery	2V	3000AH	600 AMPS

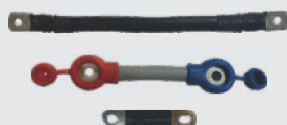
BATTERY CABINETS / ACCESSORIES / BATTERY MONITORING



C-4



C-16



BATT-CON

CABINETS AND ACCESSORIES

CODE	DESCRIPTION
C-2	1 Layer (2 x 100AH)
C-4	2 Layers (4 x 100AH)
C-6	3 Layers (6 x 100AH)
C-16	4 Layers (16 x 100AH) / (4 x 200AH)
BATT-CON	Battery Connectors





TECHNICAL PROPERTIES OF A SINGLE UNIT

Model	E-KwBe NC/S 2.5kWh	E-KwBe NC/S 5.6kWh
Nominal Capacity (subject to compatible inverter)	2.5 kWh	5.6 kWh
Total Energy	2.75 kWh	6.2kWh
DOD (of Total Energy)	90%	90%
Cell Technology	NCM	NCM
Continuous current at 25oC	25A	50A
Peak pulse current at 10s	<150A	<300A
Peak pulse current at 100ms	<250A	<500A
Continuous current at 35oC	20A	40A
Continuous current at 45oC	12.5A	25A
Efficiency	>97%	
Voltage	47V - 60.5V DC	
Nominal Voltage	55.5V DC	
Maximum charging voltage	63V	
Environment Temperature	Indoor or Outdoor	
Dimension (L×W×H)	From -20 ⁰ C to 45 ⁰ C	
Weight	669×452×127 mm	700×530×172mm
Cooling Type	25 kg	47.5 kg
Shell Material	Natural cooling	
Color	Aluminum (Chassis) + Poly Carbonate (Front cover)	
Installation Method	Blue, Red, Gold, Green, White, Gray	
IP Rating	Wall Mounted	
Humanity	IP54	
Altitude	<95%	
Maximum of Series-Parallel	<3000m	
Warranty	8 (based on inverter function)	
Life Span	7 Years (daily cycle)	
Communication Mode	>10 Years	
Communication Mode	CAN	
Protection Mode	Triple Hardware Protection (relay, softstart, fuse) and BMS software	
Battery Protection	Over-current, Over-voltage, Short circuit, Under-voltage, Over-temperature, Reverse polarity	
Certification	CE, TÜV, FCC, CSA	
Matched Hybrid Inverter	Sungrow SH5K, Goodwe GW5048D-ES, Goodwe BP	



- **Maximize your self-consumption of solar power**
Panels convert sunlight into electricity that charges E-KwBe for your home load.
- **Load shifting**
Bridge the gap between peak solar and peak demand, avoid paying heavy peak power charges to utility grid.
- **Back-up Power**
Assures power in the event of an outage
- **Super Compatibility**
Compatible with the main inverter solutions on the market.
- **Save the Environment**
Maximize the use of free energy from the sun and lower the



NV-0626



PV-TB-T



TGE-0002

HAND TOOLS

CODE	DESCRIPTION
NV-0626	Wire Stripper, 0.9 - 6.0mm
PV-TB-T	Solar System Installer Tools & Box - 1 PCS MC4 Crimping Tool - 1 PCS Wire Stripper - 1 Pair MC4 Spanners - 1 Pair MC3 Die Sets - 1 Pair A30J Die Set for 0.5 - 6.0mm Insulated Terminals

LOAD MONITORING

CODE	DESCRIPTION
TGE-0002	Tiny Tag Professional energy profile monitoring. Portable, easy to use, quick and easy coil fitting, self configuring, no complicated setup procedures. Spot checks or long term monitoring, on onsite PC required, simple download and display of management data.



CABLE IDENTIFICATION & LABELS



SIGN



SIGN



SIGN



SIGN



SIGN



SIGN



SIGN



SIGN



SIGN



SIGN

PHOTOVOLTAIC LABELS

CODE	DESCRIPTION	DIMENSIONS
SIGN	PV - System - Main Isolator	100 x 200mm
SIGN	Danger - Pricing Excludes Delivery Fees	100 x 200mm
SIGN	Danger - Isolated Main Supply Before Opening	100 x 200mm
SIGN	Danger - Do Not Disconnect DC Plugs and Sockets Under Load	100 x 200mm
SIGN	Danger - Turn Off AC Supply First	100 x 200mm
SIGN	Danger - PV Array DC Junction Box	100 x 200mm
SIGN	Danger - Contains Live Parts During Day Light	100 x 200mm
SIGN	Danger - PV Array Dc Isolator	100 x 200mm
SIGN	Danger - Contains Live Parts During Daylight	100 x 200mm
SIGN	Danger - Inverter Isolate AC and DC Before Carrying Out Work	100 x 200mm
SIGN	Danger - High Voltage	100 x 200mm
SIGN	Danger - Live DC Cable Do Not Disconnect DC Plugs Under Load	100 x 200mm
SIGN	Danger - Turn Off AC and DC Isolators First	100 x 200mm
SIGN	Warning - Dual Supply	100 x 200mm
SIGN	Inverter - Warning - Dual Supply	100 x 200mm
SIGN	Inverter - Isolated AC and DC Before Carrying Out Work	100 x 200mm



Metal Solar Placards



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