

FOR APPROV	/AL				
Scale: NTS @ A3	DO NOT SCALE	Project No.: 17124	Drawing Ref.: 17124 PV-000	Date Drawn: 03-07-2017	Drawn by: JA/ GO







NOTES:

1.0. FINAL LOCATION OF INVERTER TO BE CONFIRMED.

- 2.0. THE PV SYSTEM MAY REQUIRE A 3 PHASE SUPPLY, REFER TO ELECTRICAL SCHEMATIC FOR CONFIRMATION
- 3.0. CABLES TO RUN FROM ROOF SPACE AND PENETRATE ROOF AT POINT DETERMINED ON SITE. PENETRATION THROUGH ROOF BY OTHERS.
- 4.0. MAXIMUM DC CABLE LENGTH IS FROM FINAL MODULE IN STRING TO INVERTER.
- 5.0. ALL CABLE DISTANCES TO BE VERIFIED BY SITE VISIT PRIOR TO WORK ON SITE COMMENCING
- 6.0. THE POSITION OF PV MODULES SHOWN ON ROOF IS APPROXIMATE. THE EXACT LOCATION TO BE MEASURED & DETERMINED ON SITE ACCORDING TO THE MANUFACTURES RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- 7.0. ALL ROOF AND EXTERNAL WALL PENETRATIONS (e.g. FOR PV MODULES, CABLES OR BRACKETRY) WILL BE DURABLY SEALED USING PURPOSE-MADE PRODUCTS CAPABLE OF ACCOMMODATING THE MOVEMENT AND TEMPERATURES TO WHICH THEY MAY BE SUBJECTED.
- 8.0 ELECTRICAL CONTRACTOR TO CONFIRM ELECTRICAL INSTALLATION IS SUITABLE TO RECEIVE ELECTRICITY GENERATED BY THE PV INSTALLATION AS PER ECOLUTION DESIGN
- 9.0. STRUCTURAL ENGINEER TO ENSURE ROOF STRUCTURE IS CAPABLE OF WITHSTANDING THE LOADS (STATIC & WIND) THAT WILL BE IMPOSED BY THE PV MODULES AND THEIR MOUNTING ARRANGEMENT AS PER OUR DESIGN.
- 10.0 THE FINAL POSITION OF THE PV MODULES MAY BE AFFECTED BY THE SVP & OTHER ROOF TOP TERMINATION POINTS. PLEASE CHECK THE LOCATION OF THE SVP's & OTHER ROOF TOP TERMINATIONS SHOWN ON THE LAYOUT DRAWINGS AND THEIR ACCURACY AS IT MAY AFFECT THE PV SYSTEM SIZE AND EFFICIENCY IF MODULES HAVE TO BE REMOVED OR RELOCATED.
- 11.0 THE FINAL POSITION OF THE PV MODULES MAY BE AFFECTED BY THE MAN SAFE SYSTEM IF ONE IS PRESENT. PLEASE CHECK THE LOCATION OF THE MAN SAFE IF ONE IS INDICATED ON THE LAYOUT DRAWINGS AND THE ACCURACY OF ITS POSITION AS IT MAY AFFECT THE PV SYSTEM SIZE AND EFFICIENCY IF MODULES HAVE TO BE REMOVED OR RELOCATED.
- 12.0.TO BE READ IN CONJUNCTION WITH ELECTRICAL SCHEMATIC.

13.0. SEE PV-000 FOR SITE PLAN

PV MODULE SCHEDULE ~ 14KW

MOUNTING SYSTEM	FLAT ROOF
INVERTER ~ 15KW	2 x 17 - MPPT 1 1 x 18 - MPPT 2
MODULE TYPE & OUTPUT	POLYCRYSTALLINE (270W)
MODULE DIMENSIONS (mm)	1649 x 991 x 40mm
MODULES TO DC ISOLATOR (MAX.)	25m of 4mm ² (MAX)
DC ISOLATOR TO INVERTER (MAX.)	1m of 4mm ²
INVERTER TO MCB BOARD (MAX.)	25m of 4mm ²
TOTAL No. OF MODULES	52
Max. Amps per AC Phase	20.2A
SYSTEM SIZE	14.04kWp





03/07/2017





PEPV 270 - 285W

Covered cell interconnections | 5 Busbar | 6 Diodes

Quality

- / Subjected to test electroluminescence
- / IP67 + 1 m cable
- / High transmissivity glass and high resistance
- / Frame with higher mechanical strength and air chamber
- / Friendly environment & recyclable materials

Certificates

- / IEC 61215:2005
- / IEC 61730-1:2004 / IEC 61730-2:2004
- / Frontal load (snow) 5.400 Pa
- / Back load (wind) 2.400 Pa
- / Fire Resistance Certificate / Class I (under standard UNI 9177)
- / MCS (UK)
- / EE016-20130528-001 (France)
- / WEEE compliance in Germany
- / ETL Listed Mark (USA-Canada)
- / PID resistant





PHOTON Laboratory talks about our modules:

"Eurener is one of the oldest module manufacturers in Europe: the Spanish company was founded in 1997. I...] Is distinguished by having values that are over the average: the temperature coefficient is quite better than other modules that are in the test field. The curve behavior at different irradiance conditions shows a marked efficiency increase in radiations from medium to high, and a slight drop in efficiency at low irradiance conditions. These factors show that this module could reach higher performance than the average in longterm measurements".



SUPERIOR

Polycrystalline Standard - All Black / 270 / 280 / 285 W







Technical features

Frame
Black / Silver anodized aluminium 0,015 mm
Covered cell interconnections (Only in black)
Robust and resistant to corrosion
Built-in plug
Connection box
Sealed, robust and wide for heat dissipation
IP67 according to IEC 60529
Diodes by-pass built-in (6) for protection of the partial shading
Connector MC4 or compatible, easy and rapid connection
Cables 1 meter length and 4mm² section
Reaction to Fire Class I (conformity to UNI 9177 norm)
Frontal
3,2 mm tempered glass
Textured, extra-clear with low iron content
Solar cells
60 cells polycrystalline silicon / 156x156 mm
Weight and dimensions (L x W) +/-1% mm
20 Kg 1640/50 x 992 x 35/40 mm





Electric data

Standard - All Black	PEPV 270	PEPV 280	PEPV 285
Nominal power, Pmpp	270W	280W	285W
Tolerance, Pmpp	± 1%	± 1%	± 1%
Area of the module		1,62	
Module efficiency	16,67%	17,28%	17,59%
lsc	9,12 A	9,25 A	9,31 A
Uoc	38,61 V	39,10 V	39,38 V
Impp	8,61 A	8,85 A	8,97 A
Umpp	31,36 V	31,65 V	31,77 V
Maximum voltage		1000 V	
lsc	0,039% / °C		
Uoc	- 0,29% / °C		
g Pmax	- 0,42% / °C		
Temperature range	- 40°C to +85°C		
NOCT	44°C ± 2°C		

NOTE: Read the instruction manual of this product and follow the indications. Values are valid for: 1000W/m², AM 1,5 and cell's temperature of 25°C. All the information of this brochure may be amended without notice by Eurener.

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GW15K-DT (Dual-MPPT Three-phase)

The GW15K-DT photovoltaic inverter is suitable for commercial and industrial roofs and constructions of small and medium-sized photovoltaic power stations. This model uses full-digital control technology, advanced topologies and leading inverter control technology to achieve a conversion efficiency of up to 98.2%. It is with lower loss compared to similar products, which is easier to maximize the overall efficiency of photovoltaic system. Intelligent thermal design ensures that the temperature rise is lower and the machine runs under more stable conditions. The dual-lines MPPT extra-wide voltage range ensures that the system is with more flexible configuration.

High Performance

High Safety and Reliability

■ 45°C full-load output

- Maximum Efficiency up to 98.2% DC s
- European Efficiency up to 97.4%
- MPPT Efficiency over 99.5%
- DC switch disconnector
- IP65 dust-proof and water-proof
 - proof **30%** lighter than similar products
 - Multiple monitoring and communication

Customer-oriented Design

Super large 5-inch LCD

up to 800 pieces can be integrated in one system

Technical Data GW15K-DT

DC Input Data		
Max. PV-generator power [W]	15400	
Max. DC voltage [V]	1000	
MPPT voltage range [V]	260~850	
Turn on DC voltage [V]	250	
Max. DC work current [A]	22/22	
Number of inputs/MPP trackers	6/2 (can parallel)	
DC connector	MC IV Connector	
Standby power consumption [W]	10	
AC Output Data		
Nominal AC power [W]	15000	
Max. AC power [W]	15000	
Max. AC current [A]	25	
Nominal output voltage range	According to VDE-AR-N 410	
AC grid frequency	According to VDE-AR-N 410	
THDi	<1.5%	
Power factor	0.95 leading0.95 lagging	
AC connector	3W/N/PE, 230/400V	
Efficiency		
Max. efficiency	98.2%	
European efficiency	>97.5%	
MPPT adaptation efficiency	>99.5%	
Safety Equipment		
Leakage current monitoring unit	Integrated	
DC switch	Optional	
Islanding protection	AFD	
Grid monitoring	According to VDE-AR-N 410	
Normative Reference		
EMC compliance	EN 61000-6-1, EN 61000-6-	
Safety compliance	According to IEC 62109-1, A	
General Data		
Dimensions (W*H*D) [mm]	516*650*203	
Net weight [kg]	39	
Housing	For outdoor and indoor	
Mounting information	Wall mounting	
Operating temperature range	-20~60°C (up 45°C derating	
Relative humidity	0~95%	
Site altitude [m]	2000	
IP protection class	IP65	
Topology	Transformerless	
Cooling concept	Fan cooling	
Noise level [dB]	<45	
Display	5" LCD	
Communication	USB2.0; RS485 [Wireless(Z	
Standard warranty [years]	5/10/15/20/25(optional)	

05, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/.3 05, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/.3

05, VDE 0126-1-1/A1, RD1699, CEI 0-21, G59/2, AS4777.2/.3

6-2, EN 61000-6-3, EN 61000-6-4 As3100

igBee) optional]