

BATTERIA SIGILLATA AGM DEEP-CYCLE (USO CICLICO)
DEEP-CYCLE AGM MAINTENANCE FREE BATTERY

ZL1201120



CHARACTERISTIC / CARATTERISTICHE

Volt	12V	
Capacity / Capacità	20h	200Ah
	5h	160Ah
Internal Resistance	Full Charged Battery 25°C ≤3.0mΩ	
Capacity affected by Temperature / Effetti delle temperature sulla capacità	40°C	102%
	25°C	100%
	0°C	85%
Self-Discharge 25°C Capacity / Autoscarica a 25°C	after 3 month storage	90%
	after 6 month storage	80%
	after 12 month storage	62%
Charge cycle / Ciclo di carica	IU + h	"In" max. 40Amp; "V1" 2.43V/cell
	IUIa	"In" max. 40Amp; "V1" 14.4Volt; "If" 2Amp.

CHARACTERISTIC / CARATTERISTICHE

Battery dimensions / Dimensioni batteria			
L/L	W/P	H/A	Tot - H/A
532	206	216	221
Box Dimensions / Dimensioni scatola			
L/L	W/P	H/A	
537	221	296	
USA Type			4D
Weight / Peso			69,6 Kg
Terminal / Terminali			M8
Case / Contenitore			ABS

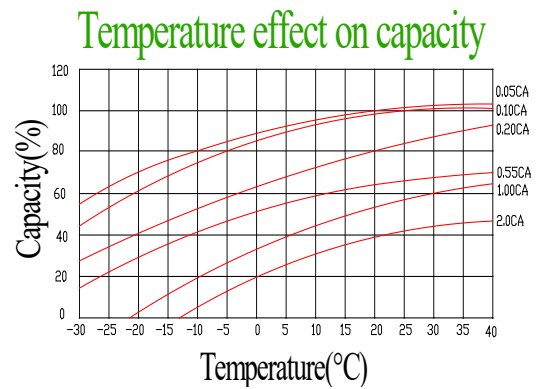
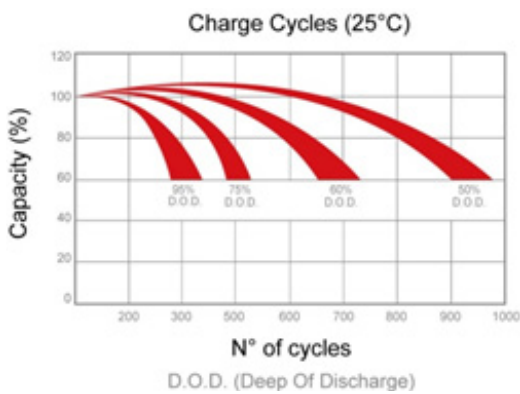
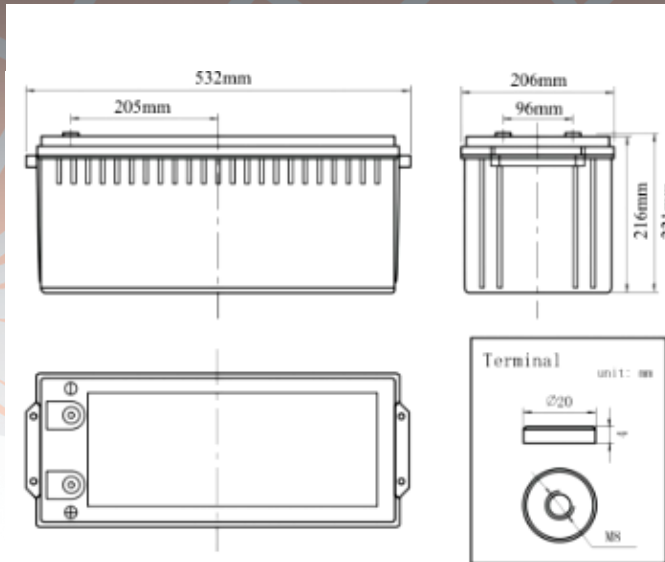
Amp. (25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	475.2	302.9	257.4	164.3	120.8	110.9	70.5	49.5	33.7	22.2	19.8	11
1.65V	466.6	297.4	252.7	161.4	118.6	108.9	69.2	48.6	33.0	21.8	19.4	10.8
1.70V	457.9	291.9	248.0	158.4	116.4	106.8	67.9	47.7	32.4	21.4	19.1	10.6
1.75V	449.3	286.4	243.4	155.4	114.2	104.8	66.6	46.8	31.8	21.0	18.7	10.4
1.80V	432.0	275.4	234.0	149.4	109.8	100.8	64.1	45.0	30.6	20.2	18.0	10.00

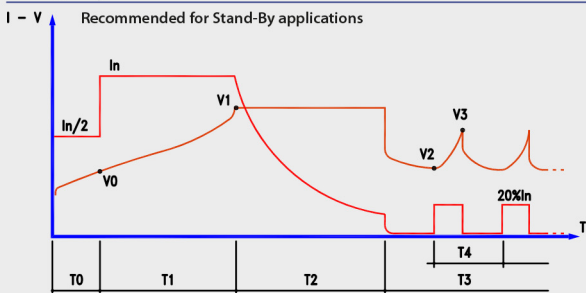
Watts (25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	914.8	583.2	495.5	316.4	232.5	213.4	135.7	95.3	64.8	42.7	38.1	21.2
1.65V	898.1	572.6	486.5	310.6	228.3	209.6	133.2	93.6	63.6	41.9	37.4	20.8
1.70V	881.5	562.0	477.5	304.9	224.0	205.7	130.8	91.8	62.4	41.1	36.7	20.4
1.75V	864.9	551.4	468.5	299.1	219.8	201.8	128.3	90.1	61.3	40.4	36.0	20.0
1.80V	831.6	530.1	450.5	287.6	211.4	194.0	123.4	86.6	58.9	38.8	34.7	19.2

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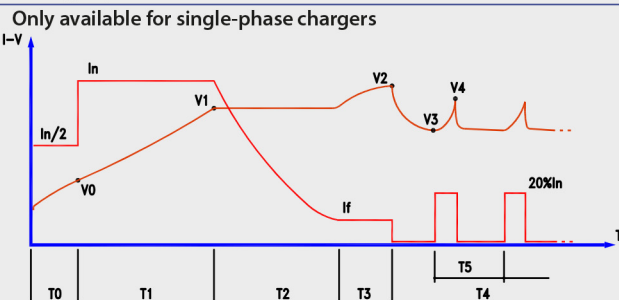
Charge cycle for sealed batteries (GEL/AGM): IU + holding



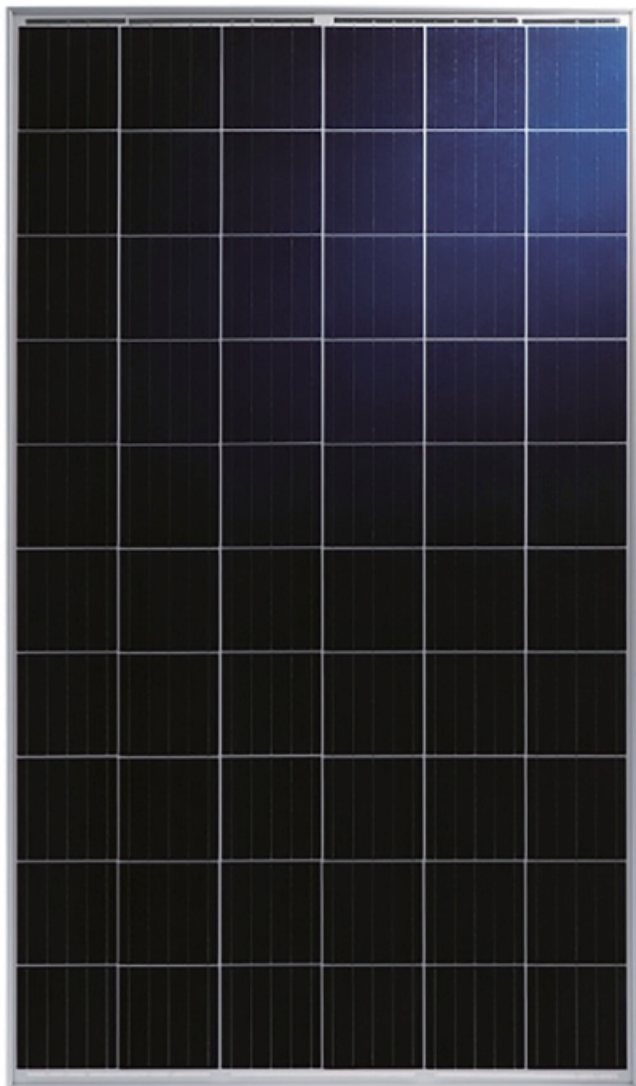
- In = PROGRAMMED CAPACITY/10
- V0 = 1,90 V/CELL
- V1 = PROGRAMMED VALUE
- V2 = 2.10 V/CELL
- V3 = 2.30 V/CELL
- T0 = MAX. 1 HR
- T1 = MAX. 12 HRS
- T2 = T1 (MIN. 2-MAX. 5 HRS)
- T3 = UNLIMITED

“IUIa” charge cycle is always recommended in case of more than 2 batteries in series
Ciclo di carica “IUIa” è sempre necessario qualora ci siano più di 2 batterie collegate in serie.

IUIa charge cycle



- In = PROGRAMMED VALUE (CHARGE I)
- If = PROGRAMMED VALUE (FINAL I)
- V0 = 1,90 V/CELL
- V1 = PROGRAMMED VALUE (THRESHOLD V)
- V2 = PROGRAMMED VALUE (LOCK V)
- V3 = 2.10 V/CELL
- V4 = 2.30 V/CELL
- T0 = MAX. 1 HR
- T1 = MAX. 12 HRS
- T2 = MAX. T1+6 HRS OR I = IF
- T3 = MAX. 4 HRS
- T4 = UNLIMITED
- T5 = MAX. 6 HRS



OKP 270-285

OkSolar High Efficiency Polycrystalline modules

- ◆ 15 anni garanzia
- ◆ Tolleranza Positiva 0/+3%Wp
- ◆ Carico Massimo 5.400 Pa
- ◆ 25 Anni di garanzia Lineare

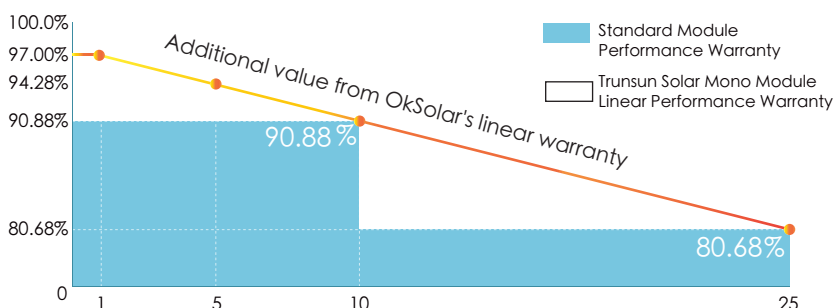


OkSolar Technology

15 years Product Material & Workmanship

25 years Linear Performance Warranty

LINEAR PERFORMANCE WARRANTY



OKP270-285 Polistalline modules

DATI ELETTRICI @ STC*	OKP60			
	270	275	280	285
Potenza Massima (Pmax/W)	270	275	280	285
Maximum Power Voltage (Vmp) (V)	31.3	31.7	32.0	32.3
Maximum Power Current (Imp) (A)	8.63	8.69	8.76	8.83
Open-circuit Voltage (Voc) (V)	38.5	38.7	39.0	39.30
Corrente di Corto Circuito (Isc/A)	9.09	9.17	9.25	9.30
Efficienza (%)	16.5	16.8	17.10	17.41
Tolleranza	0±3%			
Coefficiente di Temperatura	Pmax -0.42%/°C	Voc -0.32%/°C	Isc +0.058%/°C	
NOCT	45±2°C			

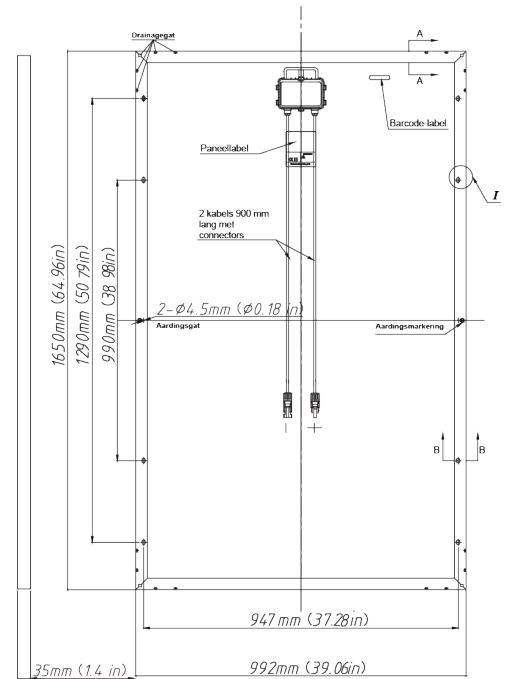
*STC: 1000w/m², 25°C, AM 1.5

Dati Meccanici

Tipologia Cella	Policristallino
Dimensione Cella	156*156mm(6 Cal)
Numero Cella	60 (6*10)
Peso	18.5 kg (40.8 lbs)
Dimensioni	1650*990*35mm(64.6*39.0*1.4inch)
Lunghezza Cavi	900mm(35.4inch)
Sezione Cavi	4mm ² (0.006sq.in)
Tipologia Vetro	Vetro Temperato 3.2 mm
Bus Bar	3/6
Telaio	Alluminio Anodizzato
Scatola di Giunzione	IP65/IP67
Connettori	MC-4 compatibile

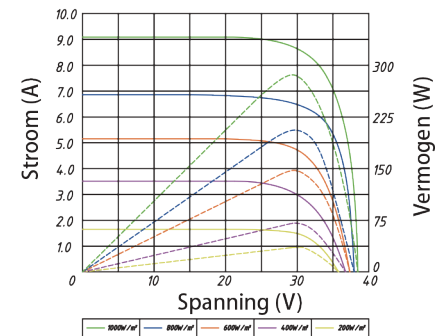
SPECIFICHE OPERATIVE

Tensione di Sistema	1000V/DC (IEC)
Temperatura di Fuzionamento	-40°C +85°C
Alimentazione Inversa IR	15A
Carico Massimo	5400Pa
Classe di Reazione al Fuoco	1
Resistenza	≥ 100MΩ



I-V CURVE

OKP 60 Pm(W)270



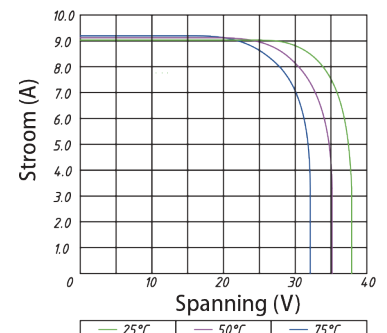
OkSolar Technology

SPECIFICHE IMBALLO

Imballo (1)	30st/pallet, 840st/40HQ
Imballo (2)	30st+5st/pallet, 910st/40HQ

*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, OkGroup SRL. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

*Power measurement tolerance: ±3%



Axpert V Off-Grid Inverter



Axpert VM 1000-12 / Axpert VM 2000-24 Axpert VP 1000-12 / Axpert VP 2000-24 Axpert VP3000-24 / Axpert VM3000-24 Axpert VM 3000-24 Plus / Axpert VP 5000-48 / Axpert VM 5000-48

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional anti-dusk kit

Axpert V Off-Grid Inverter Selection Guide

MODEL	Axpert VP 1000-12	Axpert VM 1000-12	Axpert VP 2000-24	Axpert VM 2000-24	Axpert VP 3000-24	Axpert VM 3000-24	Axpert VM 3000-24 Plus	Axpert VP 5000-48	Axpert VM 5000-48	
Rated Power	1000VA/1000W		2000VA/2000W		3000VA / 3000W			5000VA / 5000W		
INPUT										
Voltage	230 VAC									
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)									
Frequency Range	50 Hz/60 Hz (Auto sensing)									
OUTPUT										
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%									
Surge Power	2000VA		4000VA		6000VA			10000VA		
Efficiency (Peak)	90% ~ 93%									
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)									
Waveform	Pure sine wave									
BATTERY										
Battery Voltage	12 VDC		24 VDC				48 VDC			
Floating Charge Voltage	13.5 VDC		27 VDC				54 VDC			
Overcharge Protection	16 VDC		31 VDC		33 VDC			63 VDC		
SOLAR CHARGER & AC CHARGER										
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT		PWM	MPPT	
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC	
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	1200 W	1000 W	1500 W	2400 W	3000 W	
MPP Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	30~115 VDC	N/A	60 ~ 115 VDC	
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A	
Maximum AC Charge Current	20 A	20 A	20 A	25 A	25A	25A	60 A	60 A	60 A	
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	60 A	120 A	110 A	120 A	
PHYSICAL										
Dimension, D x W x H (mm)	88 x 225 x 320				100 x 285 x 334		100 x 300 x 440	100 x 300 x 440		
Net Weight (kgs)	4.4	4.4	5	5	6.3	6.5	9.5	8.5	9.7	
Communication Interface	USB/RS232									
ENVIRONMENT										
Humidity	5% to 95% Relative Humidity (Non-condensing)									
Operating Temperature	-10°C to 50°C									
Storage Temperature	-15°C to 60°C									

Product specifications are subject to change without further notice.