

# C Series COMPACT

## True Sinewave INVERTER / CHARGER



### Technical data

Model	C1312	C2324	C3548
<b>Inverter</b>			
Nominal battery voltage	12 V	24 V	48 V
Input voltage range	9.5 – 16 V	19 – 32 V	38 – 64 V
Nominal power	1300 W	2300 W	3500 W
Maximum power load 30 min.	1600 W	2600 W	4100 W
Maximum power load 5 sec	3 x P <sub>nom</sub>		
Maximum load	up to short circuit		
Maximum asymmetric load	up to P <sub>nom</sub>		
Standby adjustment	1 to 25 W		
Cos φ	0.1 - 1		
Maximum efficiency	94%	95%	95%
Consumption OFF/Standby/ON	0.5 / 0.6 / 6 W	0.8 / 0.9 / 9 W	1.2 / 1.4 / 12 W
Output voltage	230 Vac (0 / - 10%)		
Output frequency crystal controlled	50 Hz ± 0.05 %		
Total harmonic distortion	< 2%		
Dynamic behaviour on load change 0 → 100 %	0.5 ms		
Overload and short circuit protection	Automatic disconnection with 3 time restart attempt		
Overheat protection	Acoustic warning before shut-off - with automatic restart		

### Battery charger (4 STEP) I-U-Uo-Equalize (every 25 cycles)

Charging current adjustable	0 – 55 A	0 – 55 A	0 – 50 A
Input current balance adjustment (Power Sharing)	1 – 16A	1 – 16A	1 – 16A
Maximum input voltage	265 Vac		
Minimum input voltage	Adjustable threshold from 150 to 230 Vac		
Input frequency	45 – 65 Hz		
Power Factor Correction (PFC)	EN 61000-3-2		

### Optional solar charger (4 stages)

Maximum PV open circuit voltage (V)	25 V	45 V	90 V
Maximum charge current (A)	30 A	30 A	20 A
Working principle: I-U-Uo-Equalize (every 25 cycles)	Shunt	Shunt	Shunt

### Battery control (thresholds and times adjustable by the user)

Absorption time	0-4h		
End charge cycle voltage	14.4 V	28.8 V	57.6 V
Floating voltage	13.6 V	27.2 V	54.4 V
Equalisation voltage	15.6 V	31.2 V	62.4 V
Deep-discharge protection	10.8 V	21.6 V	43.2 V
Temperature compensation (optional CT-35)	-3mV / °C / cell		

### General data

Multifunction contact - potential free (3 points)	16 A – 250 Vac		
Max. current on transfer relay	15A / 3.5 kVA	15A / 3.5 kVA	15A / 3.5 kVA
Transfer time	< 20 ms		
Weight	16.0 kg	17.1 kg	29.4 kg
Dimension h x l x L [mm]	124 / 215 / 480	124 / 215 / 480	124 / 215 / 670
IP protection index	IP 20 / IP 23 with top cover		
EEC conformity	EN50081 I/II, EN 55014 – EN 55022, EN 61000-3-2 IEC 801 I/II/III/IV, CEI 555, IEC 1000-3-2, LVD 73/23/EEC		
Working range	-20 to 55°C		
Ventilation	from 45°C		
Acoustic level without / with ventilation	< 10 dB / < 35 dB		
Warranty	2 years		

### Options

Solar charger	C-xxxx-S
Remote control (112 x 138 x 25mm / 20 m. cable)	RCC-01
Remote power sharing (20 m. cable)	RPS-01
IP-23 top cover	C-IP23
AC cable cover	CFC-01
Battery temperature sensor (58 x 51.5x 22mm / 3 m. cable)	CT-35

Data may change without any notice

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