

The Popular "Handy Mains" Inverter Series

The "Handy Mains" series of inverters produce AC mains power from a broad range of battery inputs and some models have now been in production for over 10 years. We have a wealth of experience with inverters and our designs reflect this, during their life time they have constantly evolved to meet the challenge of powering most types of equipment, modern and old. With sales to five major distributors the "Handy Mains" has become one of the foremost inverters in the field.



With power ranges up to 2700W there is sure to be a "Handy Mains" to suit your requirements.

Go to <http://www.custompsdesign.com> for more information.



CUSTOM POWER DESIGN

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A DIVISION OF SMET LTD

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MANUAL FOR 230V AC, 200W 'HANDY MAINS' INVERTERS.

MODEL	BATTERY	SOCKET	MODEL	BATTERY	SOCKET
SM2709	12V (WIRE)	WIRE	SM2718	12V (WIRE)	SHUKO
SM2710	12V (PLUG)	UK	SM2727	12V (PLUG)	SHUKO
SM2711	12V (WIRE)	UK	SM2730	24V (WIRE/PLUG)	UK
SM2713	12V (PLUG)	IEC (60Hz.)	SM2732	24V (WIRE/PLUG)	IEC
SM2714	12V (WIRE)	IEC	SM2736	24V (WIRE/PLUG)	SHUKO
SM2715	12V (PLUG)	IEC			

HIGH VOLTAGES EXIST IN THIS EQUIPMENT. TREAT AS HOUSE MAINS.
THE NEGATIVE INPUT WIRE IS CONNECTED TO THE CASE.

GENERAL: This range of "Handy Mains" adaptors converts negative-earth battery power into a nominal 230VAC RMS 50Hz supply suitable for operating most common equipment. The nominal continuous power rating is 200 watts, although intermittent operation at 250 watts is permitted, with a surge up to 500 watts. The output, indicated by neon, is available from a UK, SHUKO or 3 pin IEC (kettle type) socket. The available output power is determined by a number of inter-related factors, such as mounting, ventilation, and ambient temperature. Should the adaptor become too hot, the current limit operates and switches off the output. Output is re-instated by removing and restoring the input power when the unit has cooled and the output loading has been reduced.

Because the output waveform contains high order harmonics, any Line to Neutral capacitance, such as is found in equipment mains filters, causes a reduction in conversion efficiency. Use of the Handy Mains is therefore limited to equipment having less than 0.47uF direct Line to Neutral capacitance. Power factor correction capacitors must be removed from fluorescent light fittings.

A sounder indicates when the battery is becoming significantly discharged. The tone becomes louder as the battery progressively discharges, prompting recharge. The unit will latch off if the battery falls too far.

Some models, see list, are fitted with a plug for direct connection to a cigar lighter socket, which should be unplugged to turn off the unit. On 12 volt systems, the cigar socket should be rated at 1 amp per 10 watts of output required (20 amps for full output). Required current rating is halved on 24 volt systems. If in doubt, use the **Heavy Duty Direct Wiring Kit SM2790**, which provides a 20 amp rated cigar socket.

3 wire option units are intended to be permanently installed with direct connection to the battery, by extending the wires provided. Two heavy duty wires connect to the battery and the third lead (low current) connects to a switch, for on/off control. Refer to section titled 'CONNECTION'. A mounting bracket kit SM2791 is available for mounting the Handy Mains adaptors on a flat surface.

WARNING: High voltages exist in this equipment, treat as house mains. When using appliances outside, an RCD SAFETY ADAPTOR must be used. This adaptor is supplied on the basis of the user determining the suitability for the purpose for which it is to be used. Not for life dependent use.

PROTECTION: Should the load current become excessive, or the Handy Mains get too hot, the output will be switched off. The output will remain off until the unit has been turned off then on. The output will then appear provided the load has been reduced or the temperature of the unit has fallen sufficiently. Should a gross overload occur or the input polarity be reversed, the internal input fuse may blow.

FUSE REPLACEMENT: Disconnect the unit completely from the battery and wait two hours. Remove the cover and replace the fuse. Fit the cover and connect the battery before switching on.

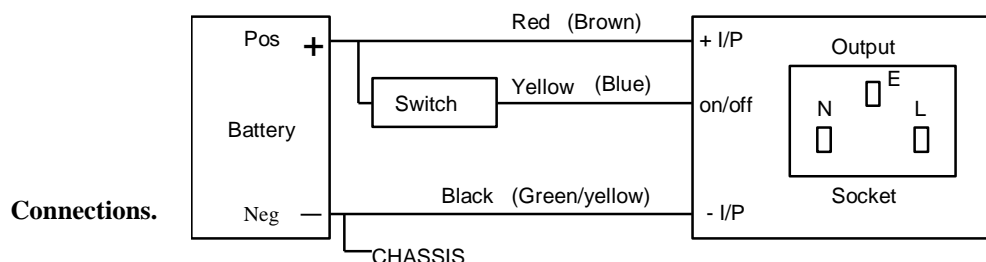
CONNECTION: For cigar plug versions, power is available from the output socket as soon as the plug is inserted in the lighter socket. The input lead must not be extended except by using the Heavy Duty Wiring Kit SM2790. The Handy Mains should be positioned such that the input lead is not under tension.

Permanently installed versions ('3 wire') have flying input leads for supply connection. Two different sets of wire colours are fitted to identify the input voltage rating of the particular HANDY MAINS.

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The 12V 3 wire input units have separate heavy red and black leads with a thin yellow lead, and the 24V versions have a composite cable with brown, blue, and green/yellow wires, terminated in a cigar plug. This plug should be removed and the cable stripped back for permanent installation.

Connection is as follows (see diagram):- The black or green/yellow wire is taken to battery negative (chassis), the red or brown wire is taken to battery positive and the yellow or blue wire is taken to the switch auxiliary contact for on/off control. For protection of the input cabling, a 30A fuse should be fitted in the battery positive lead at a suitable point. Fuse the switch wire at 1A.



SPECIFICATION:

	12V INPUT UNITS	24V INPUT UNITS
DC Input Supply Range, continuous:	11V - 15V	22V - 30V
DC Input Supply Range, 10 seconds:	10V - 18V	20V - 36V
Input Current per 10W loading (nominal):	1 A	0.5A
Input Current, No Load (typical):	0.4A	0.2A
Battery Low Audible Warning (typical):	10.5V	20.7V
Battery Low Latch Off (typical):	9.6V	19V
RMS AC Output Voltage:	230V typical, 216V to 255V depending on load power and input voltage. Maximum Live to Neutral filter capacitance 0.47uF.	
Output Wave Form:	Stepped quasi sine wave with crest voltage varying within safe limits, as input varies.	
Output Power, Continuous:	200 Watts (resistive load), when optimally mounted with good ventilation in a maximum ambient temperature of 30°C.	
Output Power, Short term:	250 Watts (resistive load), for five minutes from cold.	
Output Power, Surge:	500 Watts (resistive load), for 500 mS.	
Ambient Temperature range:	-40 to +35C operating, -40 to +70C storage.	

Made in the United Kingdom.

HELPFUL HINTS: There is a limit to the power available, which can vary with temperature, and other factors. Do not cover the unit or restrict airflow. The unit will run hot when used at high power. Ensure that the cigar lighter socket is adequately rated. When not in use, switch off or disconnect the unit adaptor, because it will still continue to draw some current, thereby discharging the battery.

SAFETY WARNING.

Ensure that the battery voltage is correct for the model. Do not reverse the polarity of the input voltage. Use at least 6mm² wire to connect the converter to the battery. Thin wire will cause fire hazard. Fuse Battery at source. Fuse switch wire at 1A. The case is connected to the negative input. Only operate the unit from a battery. Do not connect the unit to any other power source. Do not use with capacitive loads greater than 0.47uF. Power factor correction capacitors must be removed from fluorescent light fittings. For inside use only. Do not expose to moisture. Do not cover. The unit will run hot when under elevated load. Disconnect the battery before changing the fuse. Do not operate the unit with the cover off. When using tools outside, ground fault interrupter (RCD) protection must be used. Turn off when not in use to avoid battery drain. This equipment is supplied on the basis of the user determining the suitability of use. Not to be used for life support. Do not use in a moving vehicle without the vehicle manufacturer's consent. Do not use for marine or aviation applications without our written agreement. We reserve the right to change the specification without notice.

Information: +44 (0)118 983 1222

Web: <http://www.custompsudesign.com>.

International Section Follows.

OTHER CONVERTERS IN RANGE

The range of converter products manufactured in the UK, by **SMET Ltd.**, allow a broad range of battery voltages to be converted to commonly required output voltages. These converters are suitable for powering most domestic and professional electrical appliances that have a DC input. Wherever you are you can run your laptop, power your CD/cassette player, charge your camcorder or simply charge batteries from your main battery.



One of the most important things, when selecting the right converter, is to know the highest power rating of the range of equipment you wish to run, and whether use is solely to power a device or to charge the battery within a device. Converters have different short term and continuous power capabilities, which must be matched with the equipment they are to run. Note that nearly all low voltage DC devices will have a power plate stating the required input voltage and current and voltage polarity required. If you have any questions with respect to choosing the right converter for your application call our **Help Line** on (0118) 983 1222 and we will be happy to help you.

Smaller converters are fitted with an input plug to suit cigar lighter sockets, others intended for permanent installation have short heavy wires for connection to the battery, with a third thin wire to connect to a low current switch (termed '3 wire i/p') for on/off control. Large converters have heavy duty studs. The outlets come in a wide range to suit most appliances, be sure to tell us which connector and polarity you require when ordering.

CAUTION: These adapters are supplied on the basis of the user determining the suitability of use.

NOT FOR LIFE DEPENDENT USE

Go to <http://www.customsdesign.com> for more information.

ITALIANO.

MODELLO	BATTERIA	ZOCCOLO	MODELLO	BATTERIA	ZOCCOLO
SM2709	12V (CAVO)	CAVO	SM2718	12V (CAVO)	SHUKO
SM2710	12V (SPINA)	UK	SM2727	12V (SPINA)	SHUKO
SM2711	12V (CAVO)	UK	SM2730	24V (CAVO/SPINA)	UK
SM2713	12V (SPINA)	IEC (60Hz.)	SM2732	24V (CAVO/SPINA)	IEC
SM2714	12V (CAVO)	IEC	SM2736	24V (CAVO/SPINA)	SHUKO
SM2715	12V (SPINA)	IEC.			

GENERALITÀ: " Handy Mains " convertono la potenza della batteria in 230V CA 50Hz. La valutazione di alimentazione continua è 200W, con il funzionamento intermittente a 250 watt ed impulsi corti fino a 500 watt.

Un ricevitore acustico indica quando la batteria sta essendo scaricata significativamente. L'unità si aggancerà fuori se la tensione della batteria cade troppo basso.

Per ' le unità della spina del sigaro ', lo zoccolo del sigaro deve essere rated a 1A per ogni 10 watt di uscita usati. Usi il **corredo dei collegamenti diretti, SM2790**, per uso di alta alimentazione. le unità d' entrata ' del legare ' sono intese permanente per essere collegate alla batteria. Utilizzi il supporto di attacco SM2791 per riparare l'unità ad una parete.

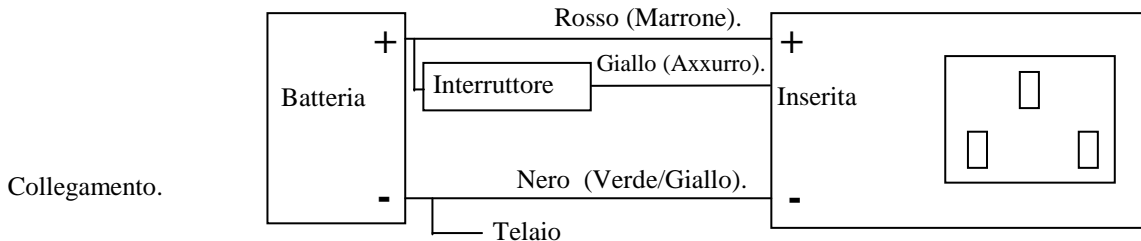
RIMONTAGGIO DEL FUSIBILE: Stacchi l'unità completamente dalla batteria ed attenda due ore. Rimuova la copertura e sostituisca il fusibile. Misura la copertura e colleghi la batteria prima di inserirsi.

COLLEGAMENTO DELLA BATTERIA PER LE UNITÀ D' ENTRATA DEL CAVO:

UNITÀ 12V: ROSSO: Positive (+). **NERO:** Negazione (-). **GIALLO:** Interruttore inserita.

Connection.

UNITÀ 24V: MARRONE: Positive (+). **VERDE /GIALLO:** negazione (-). **AZZURRO:** inserita.



SPECIFICA:

	INPUT 12V.	INPUT 24V.
Tensione in Ingresso, continua:	11V - 15V	22V - 30V
Tensione in Ingresso, 10 secondi:	10V - 18V	20V - 36V
Corrente dell'input per carico 10W (tipico):	1 A	0.5A
Corrente dell'input, nessun carico (tipico):	0.4A	0.2A
Avvertimento Basso Della Batteria:	10.5V	20.7V
Serratura Bassa Della Batteria:	9.6V	19V
Tensione Dell'Uscita Di CA:	230V RMS tipico, 216V a 255V secondo alimentazione del carico e tensione in ingresso. <u>Capacità massimo del carico 0.47uF.</u>	
Alimentazione Dell'Uscita, Continua:	200 Watt (carico di resistenza).	
Alimentazione dell'uscita, termine corto:	250 Watt (carico di resistenza), per cinque minuti.	
Alimentazione Dell'Uscita, Impulso:	500 Watt (carico di resistenza), per 500 mS.	
Gamma di Temperature Ambientale:	-40C - +35C funzionamento, -40C - +70C immagazzinaggio.	

Fatto Nel Regno Unito.

AVVERTIMENTO DI SICUREZZA.

Accertarsi che la tensione della batteria sia corretta per il modello. Non inverta la polarità della tensione in ingresso. Usi almeno il legare 6mm² per collegare il convertitore alla batteria. Il legare sottile causerà il rischio d'incendio. Fusibile la batteria vicino alla fonte. Legare giallo del fusibile a 1A. Il caso è collegato all'input negativo. Funzioni soltanto l'unità a partire da una batteria. Non colleghi l'unità a qualunque altra fonte di energia. Capacità massimo del carico 0.47uF. I condensatori di correzione di fattore di alimentazione devono essere rimossi dai montaggi chiari fluorescenti.. Non copra. Per uso della parte interna soltanto. Non esponga ad umidità. L'unità farà funzionare caldo quando sotto il carico elevato. Stacchi la batteria prima di cambiare il fusibile. Non funzioni l'unità con la copertura fuori. Nel per mezzo degli attrezzi all'esterno, la protezione al suolo dell'interruttore del difetto (RCD) deve essere usata. Spenga quando non in uso evitare lo scolo della batteria. Questa apparecchiatura è fornita in base all'utente che determina l'idoneità di uso. Non usi per il supporto di vita. Non usi in un veicolo commovente senza il consenso del fornitore del veicolo. Non usi per il fante di marina o le applicazioni di aeronautica senza nostro accordo scritto. Riserviamo il diritto di cambiare la specifica senza avviso.

Le informazioni: +44 (0)118 983 1222

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FRANÇAIS.

MODÈLE	BATTERIE	DOUILLE	MODÈLE	BATTERIE	DOUILLE
SM2709	12V (FIL)	FIL	SM2718	12V (FIL)	SHUKO
SM2710	12V (PRISE)	UK	SM2727	12V (PRISE)	SHUKO
SM2711	12V (FIL)	UK	SM2730	24V (FIL / PRISE)	UK
SM2713	12V (PRISE)	IEC (60Hz.)	SM2732	24V (FIL / PRISE)	IEC
SM2714	12V (FIL)	IEC	SM2736	24V (FIL / PRISE)	SHUKO
SM2715	12V (PRISE)	IEC			

GÉNÉRAL: les onduleurs, 'Handy Mains' convertissent la puissance de batterie en 230V C.A. RMS, 50Hz. Puissance continue est 200W, avec l'opération intermittente à 250 watts, et vague (puissante) à 500 watts.

Un sondeur indique quand la batterie devient sensiblement déchargée. L'unité se verrouillera au loin si la tension de batterie tombe trop bas.

Pour des unités de prise de cigare, la douille de cigare doit être évaluée à 1A chaque 10 watts de rendement utilisés. Employez le **Kit de Câblage Direct, SM2790**, pour l'usage de puissance élevée. Des unités d'entrée d' fil ' sont prévues pour être de manière permanente reliées à la batterie. Utilisez le support **SM2791** pour fixer l'unité à un surface.

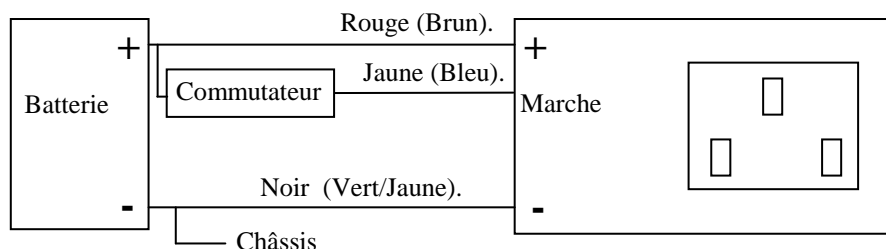
REPLACEMENT DE FUSIBLE: Démontez l'unité complètement de la batterie et attendez deux heures. Enlevez la couverture et remplacez le fusible. Adaptez la couverture et reliez la batterie avant d'alimenter.

RACCORDEMENT DE BATTERIE POUR DES UNITÉS D'ENTRÉE DE FIL:

UNITÉS 12V: ROUGE: Positif (+). **NOIR:** Négatif (-). **JAUNE:** Commutateur "Marche/Arrêt".

UNITÉS 24V: BRUN: Positif (+). **VERT / JAUNE:** Négatif (-). **BLEU:** Commutateur "Marche/Arrêt".

CONNEXION.



SPÉCIFICATIONS:

	ENTRÉE 12V.	ENTRÉE 24V.
Tension d'entrée, continue:	11V - 15V	22V - 30V
Tension d'entrée, 10 secondes:	10V - 18V	20V - 36V
Courant d'entrée par chargement 10W (nominal) :	1,0 A	0,5A
Courant d'entrée, aucune charge:	0,4A	0,2A
Bas Avertissement de Batterie:	10,5V	20,7V
Bas Verrou de Batterie Au loin:	9,6V	19V
Tension de Rendement C.A.:	230V RMS typique, 216V à 255V selon la puissance de charge et tension d'entrée. <u>Capacité 0,47uF de charge maximum.</u>	
Puissance de Rendement, Continue:	200 watts (charge de résistance).	
Puissance de Rendement, court terme:	250 watts (charge de résistance), pendant 5 minutes.	
Puissance de Rendement, Vague (puissante):	500 watts (charge de résistance), pour 500 mS.	
Température Ambiante:	-40C - +35C opération, -40C - +70C stockage.	
Fabriqué au R-U		

AVERTISSEMENT DE SÛRETÉ.

Assurez-vous que la tension de batterie est correcte pour le modèle. Ne renversez pas la polarité de la tension d'entrée. Employez au moins un fil 6mm² pour relier à la batterie. Un fil mince causera le risque d'incendie. Actionnez seulement l'unité à partir d'une batterie. Ne reliez l'unité à aucune autre source d'énergie. Capacité 0,47uF de charge maximum. Des condensateurs de compensation de phase doivent être enlevés des garnitures légères fluorescentes. Fusible la batterie près de la source. Fil de commutateur de fusible à 1A. Le cas est relié à l'entrée négative. Utilisez à l'intérieur seulement. N'exposez pas à l'humidité. L'unité courra chaud quand sous la charge élevée. Ne couvrez pas. Débranchez la batterie avant de changer le fusible. N'actionnez pas l'unité avec la couverture au loin. Éteignez quand pas en service pour éviter de vider la batterie. À l'aide des outils dehors, la protection au sol d'interrupteur de défaut (prise antiélectrocution RCD) doit être employée. N'employez pas dans un véhicule mobile sans consentement du fabricant de véhicule. N'employez pas pour le soldat de marine ou les applications d'aviation sans notre accord écrit. Cet équipement est fourni sur la base de l'utilisateur déterminant la convenance de l'utilisation. Ne pas être employé pour l'appui de la vie. Nous nous réservons le droit de changer les spécifications sans communication préalable.

L'information: +44 (0)118 983 1222

Web: <http://www.custompsudesign.com>.

DEUTSCH.

MODELL	BATTERIE	ANSCHLUSS	MODELL	BATTERIE	ANSCHLUSS
SM2709	12V (LEITUNG)	LEITUNG	SM2718	12V (LEITUNG)	SHUKO
SM2710	12V (STECKER)	UK	SM2727	12V (STECKER)	SHUKO
SM2711	12V (LEITUNG)	UK	SM2730	24V (LEITUNG / STECKER)	UK
SM2715	12V (STECKER)	IEC (60Hz.)	SM2732	24V (LEITUNG / STECKER)	IEC
SM2714	12V (LEITUNG)	IEC	SM2736	24V (LEITUNG / STECKER)	SHUKO
SM2715	12V (STECKER)	IEC			

ALLGEMEIN: Wechselrichter " Handy Mains" wandeln Batterieleistung in 230V wechselstrom effektivwert 50Hz um. Die ununterbrochenen Anschlußwerte sind 200W, mit Aussetzbetrieb bei 250W und kurze Schwankungen bis 500W. Ein Klopfer zeigt an, wann die Batterie erheblich entladen wird.

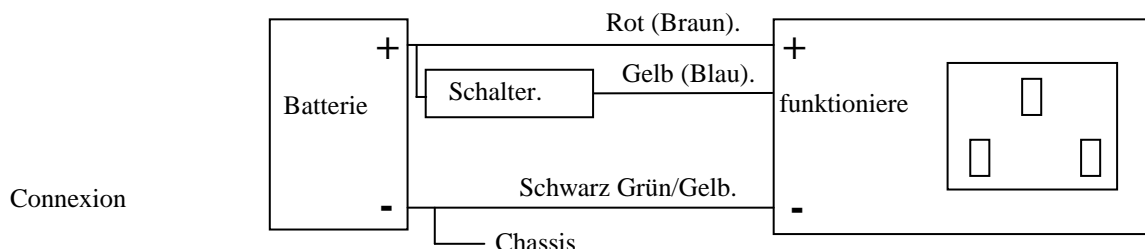
Für ' Stecker' Maßeinheiten muß die Zigarreeinfaßung bei 1 Ampere für jede 10 Watt Ausgang steuerpflichtig sein benutzt. Benutzen Sie den **Direktverdrahtungsinstallationsatz, SM2790**, für Gebrauch der hohen Energie. ' Leitungs' Eingangsmaßeinheiten sollen an die Batterie dauerhaft angeschlossen werden. Benutzen Sie Schienenplatte SM2791, um die Maßeinheit an einer wand zu befestigen.

SICHERUNGSCWIEDER EINBAU: Trennen Sie die Maßeinheit vollständig von der Batterie und warten Sie zwei Stunden. Entfernen Sie die Abdeckung und ersetzen Sie die Sicherung. Passen Sie die Abdeckung und schließen Sie die Batterie.

BATTERIE ANSCHLUSS FÜR LEITUNG EINGANGSLEISTUNG:

MODELLE 12V: ROT: Positiv (+). **SCHWARZ:** Negativ (-). **GELB:** Schalter.

MODELLE 24V: BRAUN: Positiv (+). **GRÜN / GELB:** Negativ (-). **BLAU:** Schalter.



SPEZIFIKATION:

	EINGANG 12V.	EINGANG 24V.
Eingangsspannung, ununterbrochen:	11V - 15V	22V - 30V
Eingangsspannung, 10 Sekunden:	10V - 18V	20V - 36V
Eingangsstrom pro das Laden 10W (typisch):	1 A	0.5A
EingangsStrom, Keine Belastung (typisch):	0.4A	0.2A
Niedrige Warnung Der Batterie:	10.5V	20.7V
Niedrige Verriegelung Der Batterie Weg:	9.6V	19V
WechselstromAusgangs Spannung:	Effektivwert 230V typisch, 216V zu 255V abhängig von Lastsenergie und Eingangsspannung. <u>Maximallastkapazität 0.47uF.</u>	
AusgangsEnergie, Ununterbrochen:	200W (Widerstandslast).	
Ausgangsenergie, kurze Bezeichnung:	250W (Widerstandslast), für fünf Minuten.	
AusgangsEnergie, Schwankung:	500W (Widerstandslast), für 500 mS.	
Umgebende Temperaturspanne:	-40C to +35C Funktionieren, -40C to +70C Ablage.	

SICHERHEITS-WARNING.

Stellen Sie sicher, daß die Batteriespannung für das Modell korrekt ist. Heben Sie nicht die Polarität der Eingangsspannung auf. Benutzen Sie mindestens Leitung 6mm², um den Konverter an die Batterie anzuschließen. Dünne Leitung verursacht Brandgefährdung. Schmelzsicherung Sie die Batterie nahe der Quelle. Sicherungsschalter an 1A. Der Fall wird an den negativen Eingang angeschlossen. Lassen sie nur die Maßeinheit von einer batterie laufen. Schließen Sie die Maßeinheit nicht an irgendeine andere Energiequelle an. Maximallastkapazität 0.47uF. Energiefaktorkorrekturkondensatoren müssen von den Leuchtstoff hellen Befestigungen entfernt werden. Für nur Inneregebrauch. Stellen Sie nicht Feuchtigkeit heraus. Bedecken Sie nicht. Die Maßeinheit läßt heißes wenn unter erhöhter Last laufen. Trennen Sie die Batterie, bevor Sie die Sicherung ändern. Lassen Sie nicht die Maßeinheit mit der Abdeckung weg laufen. Wenn man draußen Werkzeuge verwendet, muß Grundschutz des störungsunterbrechers (RCD) verwendet werden. Drehen Sie sich weg wenn nicht in Gebrauch, Batterieabfluß zu vermeiden. Diese Ausrüstung wird auf der Grundlage von den Benutzer geliefert, der die Eignung des Gebrauches feststellt. Nicht für Lebenunterstützung verwendet werden. Verwenden Sie nicht in einem beweglichen Wagen ohne die Vereinbarung des Wagenherstellers. Verwenden Sie nicht für Marine oder Luftfahrtanwendungen ohne unsere schriftliche Vereinbarung. Wir behalten uns das recht vor, die spezifikation ohne nachricht zu ändern.

Informationen: +44 (0)118 983 1222

Web: <http://www.customsdesign.com>.

ESPAÑOL.

MODELO	BATERÍA	ZÓCALO	MODELO	BATERÍA	ZÓCALO
SM2709	12V (ALAMBRE)	ALAMBRE	SM2718	12V (ALAMBRE)	SHUKO
SM2710	12V (ENCHUFE)	UK	SM2727	12V (ENCHUFE)	SHUKO
SM2711	12V (ALAMBRE)	UK	SM2730	24V (ALAMBRE / ENCHUFE)	UK
SM2713	12V (ENCHUFE)	IEC (60Hz.)	SM2732	24V (ALAMBRE / ENCHUFE)	IEC
SM2714	12V (ALAMBRE)	IEC	SM2736	24V (ALAMBRE / ENCHUFE)	SHUKO
SM2715	12V (ENCHUFE)	IEC			

General: los convertidores de las " Handy Mains " convierten energía de batería en 230V CA RMS 50Hz. El grado de energía continuo es 200W, con la operación intermitente en 250W, y oleadas cortas hasta 500W.

Un sounder indica cuando la batería se está descargando perceptiblemente. La unidad trabará apagado si baja el voltaje de la batería demasiado bajo.

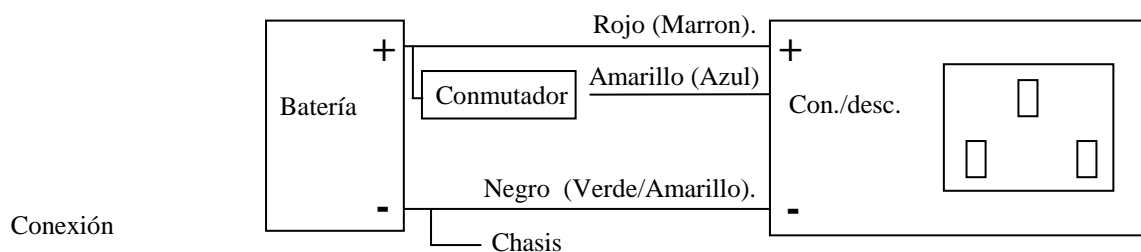
Para las unidades del 'enchufe', el zócalo del cigarro debe ser clasificado en 1A por 10W de carga. **Utilice el kit del cableado, SM2790**, para el uso de la alta energía. las unidades de entrada del 'alambre' se piensan para ser conectadas permanentemente con la batería. Utilice el soporte de montaje **SM2791** para fijar la unidad a una pared.

REEMPLAZO DEL FUSIBLE: Desconecte la unidad totalmente de la batería y espere dos horas. Quite la cubierta y sustituya el fusible. Quepa la cubierta y conecte la batería.

CONEXIÓN DE LA BATERÍA PARA LAS UNIDADES DE ENTRADA DEL ALAMBRE:

UNIDADES 12V: ROJO: Positivo (+). **NEGRO:** Negativa (-). **AMARILLO:** Interruptor.
Connection.

UNIDADES 24V: MARRÓN: Positivo (+). **VERDE / AMARILLO:** negativa (-). **AZUL:** Interruptor.



ESPECIFICACIÓN:

	12V ENTRADO.	24V ENTRADO.
Voltaje de entrada, continuo:	11V - 15V	22V - 30V
Voltaje de entrada, 10 segundos:	10V - 18V	20V - 36V
Corriente de la entrada por la carga 10W (típica):	1 A	0.5A
Corriente de la entrada, ninguna carga (típica):	0.4A	0.2A
Advertencia Baja De la Batería:	10.5V	20.7V
Cierre Bajo De la Batería Apagado:	9.6V	19V
Voltaje De la Salida De la CA:	230V RMS típico, 216V a 255V dependiendo de energía de la carga y voltaje de entrada. <u>Capacitancia 0.47uF máxima de la carga.</u>	
Energía De la Salida, Continua:	200W (carga de la resistencia).	
Energía de la salida, corto plazo:	250W (carga de la resistencia), por cinco minutos.	
Energía De la Salida, Oleada:	500 Watts (carga de la resistencia), for 500 mS.	
Gama De Temperaturas Ambiente:	-40C to +35C funcionamiento, -40C to +70C almacenaje.	
Hecho en el Reino Unido.		

ADVERTENCIA DE SEGURIDAD.

Asegúrese de que el voltaje de la batería esté correcto para el modelo. No invierta la polaridad del voltaje de entrada. Utilice por lo menos el alambre 6mm² para conectar el convertidor con la batería. El alambre fino causará riesgo de incendios. Fusible la batería cerca de la fuente. Interruptor del fusible en 1A. El caso está conectado con la entrada negativa. Funcione solamente la unidad desde una batería. No conecte la unidad con ninguna otra fuente de energía. Capacitancia 0.47uF máxima de la carga. Los condensadores de la corrección de factor de energía se deben quitar de las guarniciones ligeras fluorescentes. Para el uso del interior solamente. No exponga a la humedad. No cubra. La unidad funcionará caliente cuando bajo carga elevada. Desconecte la batería antes de cambiar el fusible. No funcione la unidad con la cubierta apagado. Al usar las herramientas afuera, la protección de tierra del interruptor de la avería (RCD) debe ser utilizada. Dé vuelta apagado cuando no en uso de evitar el dren de la batería. Este equipo se provee en base del usuario que determina la conveniencia del uso. No ser utilizado para la ayuda de la vida. No utilice en un vehículo móvil sin el consentimiento del fabricante del vehículo. No utilice para el infante de marina o los usos de la aviación sin nuestro acuerdo escrito. Reservamos la derecha de cambiar la especificación sin el aviso.

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