ST. GEORGE ENERGY

CHARGERS

C US 262310



HTUB-D

THREE PHASE 480/600 Vac

SUITABLE BATTERIES

Wet lead acid - PzS
GEL – AGM – VRLA – PzV
Lithium (on demand)

MAIN APPLICATIONS



MODELS AVAILABLE

						Lead acid (Ah)		Gel (Ah)	Iac	
V	A	VAC	CODE	VAC	CODE	7-8h	10-11-14h	12-14h	current draw 480Vac	current draw 600Vac
24	320	3x480	**HTUB 24/320-LD**	3x600	**HTUB 24/320-VD**	1758-2032	2438-2706-3266	2172-2708	10.8	8.6
24	400	3x480	**HTUB 24/400-LD**	3x600	**HTUB 24/400-VD**	2198-2540	3046-3384-4082	2714-3384	13.4	10.8
36	320	3x480	**HTUB 36/320-LD**	3x600	**HTUB 36/320-VD**	1758-2032	2438-2706-3266	2172-2708	16.0	12.8
36	400	3x480	**HTUB 36/400-LD**	3x600	**HTUB 36/400-VD**	2198-2540	3046-3384-4082	2714-3384	20.0	16.0
48	320	3x480	**HTUB 48/320-LD**	3x600	**HTUB 48/320-VD**	1758-2032	2438-2706-3266	2172-2708	21.4	17.0
48	400	3x480	**HTUB 48/400-LD**	3x600	**HTUB 48/400-VD**	2198-2540	3046-3384-4082	2714-3384	26.6	21.4
80	200	3x480	**HTUB 80/200-LD**	3x600	**HTUB 80/200-VD**	1099-1270	1523-1692-2041	1357-1692	22.0	17.6
80	240	3x480	**HTUB 80/240-LD**	3x600	**HTUB 80/240-VD**	1318-1524	1828-2030-2448	1628-2030	26.4	21.2
96	190	3x480	**HTUB 96/190-LD**	3x600	**HTUB 96/190-VD**	1044-1206	1941-1607-1939	1289-1607	25.1	20.1
120	150	3x480	**HTUB 120/150-LD**	3x600	**HTUB 120/150-VD**	824-952	1142-1269-1531	2036-1269	25.1	20.1

HTUB-D



PRODUCT INTRO

HTUB-D are the HF chargers aimed to reach the highest performances, they double the power of the HTUB models. This range gathers all top features in terms of efficiency, power factor, internal structure and general flexibility. An integrated digital interface with OLED/LCD display and integrated USB enables the best and easiest overview of the charging operation. This version has Opportunity and Fast Charge options. Lithium version is available with private or custom protocol.

GENERAL CHARACTERISTICS

Mains	480 Vac (3ph) 50-60Hz / 600 Vac (3ph) 50-60Hz
Visual signalling	LED/LCD display, 4 LEDs and 4 control keys
Charger setting	By OLED display: current, capacity and 7 pre-set charging profiles. By laptop/USB port: enhanced programming
Data memory	Charger gives a report of the last 50 cycles and key technical data by integrated USB port
Cool-down system	Dedicated air cooling direct to heatsink only. Temperature-regulated fan speed. Fan idle within +104° F (+40° C) internal components temperature
Efficiency	≥ 92%
Operating temperatures	+32° to +104° F (0° to +40° C)
Certifications	CSA

SAFETY FEATURES

Input protection	3 fast fuses
Output protection	By fuse (reverse polarity protection
Thermal protection	Probes on IGBT, diodes and power transformer + derating
Disconnection protection	Safety cut off by undervoltage

OPTIONALS

Cable holder
Air mix pump, pilot contact, charger status lamp, thermal probe voltage adjustment

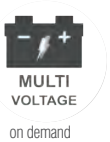
MECHANICAL CHARACTERISTICS

Dimensions (LxWxH)	18.5 x 16.61 x 49.48 inches (470 x 422 x 1257 mm)
Protection degree	IP 21 (vertical) - (dedicated cooling direct to heatsink) Additional filter protection on demand
Weight	149.91 lb (68 kg)
Input Cable	At customer care
Output Cables	2.7 yd (2.5 m) +/-10% (length) - DC plug on demand





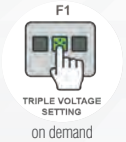




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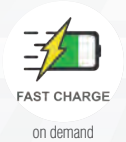
on demand



on demand



on demand



on demand

ST. GEORGE ENERGY

CHARGERS

262310



HTUB-LH

THREE PHASE 208/220/240 Vac

SUITABLE BATTERIES

Wet lead acid - PzS
GEL – AGM – VRLA – PzV
Lithium (on demand)

MAIN APPLICATIONS



MODELS AVAILABLE

				Lead acid (Ah)		Gel (Ah)	Iac
V	A	VAC	CODE	7-8h	10-11-14h	12-14h	current draw
24	140	3x208/220/240	**HTUB24/140-LH**	769-889	1066-1185-1429	950-1185	11.2
24	160	3x208/220/240	**HTUB24/160-LH**	879-1016	1219-1354-1633	1086-1354	12.8
24	200	3x208/220/240	**HTUB24/200-LH**	1099-1270	1523-1692-2041	1357-1692	15.9
36	140	3x208/220/240	**HTUB36/140-LH**	769-889	1066-1185-1429	950-1185	16.6
36	160	3x208/220/240	**HTUB36/160-LH**	879-1016	1219-1354-1633	1086-1354	19.0
36	200	3x208/220/240	**HTUB36/200-LH**	1099-1270	1523-1692-2041	1357-1692	23.8
48	140	3x208/220/240	**HTUB48/140-LH**	769-889	1066-1185-1429	950-1185	22.1
48	160	3x208/220/240	**HTUB48/160-LH**	879-1016	1219-1354-1633	1086-1354	25.4
48	200	3x208/220/240	**HTUB48/200-LH**	1099-1270	1523-1692-2041	1357-1692	31.6
80	120	3x208/220/240	**HTUB80/120-LH**	659-762	914-1015-1224	814-1015	31.4

Special version 72V available on demand. In between output current sizes available.

HTUB-LH



PRODUCT INTRO

HTUB-LH is the top level HF charger aimed to reach the highest performances. It is designed for 208/220/240 input Vac commonly used in the US and Latin American territories. This range gathers all top features of HF ranges in terms of efficiency, power factor, internal structure and general flexibility. An integrated digital interface with OLED/LCD display and integrated USB enables the best and easiest overview/setting of charge parameters, diagnostic and data reports. This version has Opportunity profile available on demand. Lithium version is available with private or custom protocol.

GENERAL CHARACTERISTICS

Mains	208/220/240V (3ph) 60Hz
Visual signalling	LED/LCD display, 4 LEDs and 4 control keys
Charger setting	By OLED display: current, capacity and 7 pre-set charging profiles. By laptop/USB port: enhanced programming
Data memory	Charger gives a report of the last 50 cycles and key technical data by integrated USB port
Cool-down system	Dedicated air cooling direct to heatsink only. Temperature-regulated fan speed. Fan idle within +104° F (+40° C) internal components temperature
Efficiency	≥ 90%
Operating temperatures	+32° to +104° F (0° to +40° C)
Certifications	CSA

SAFETY FEATURES

Input protection	3 fast fuses
Output protection	By fuse (reverse polarity protection)
Thermal protection	Probes on IGBT, diodes and power transformer + derating
Disconnection protection	Safety cut off by undervoltage

OPTIONALS

Cable holder
Air mix pump, pilot contact, charger status lamp, thermal probe voltage adjustment

MECHANICAL CHARACTERISTICS

Dimensions (LxWxH)	18.5 x 16.61 x 49.48 inches (470 x 422 x 1257 mm)
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LAPTOP SET / DATA STORAGE

NEW COOLING SYSTEM

CAN BUS AVAILABLE on demand

MULTI VOLTAGE on demand

dV/dt PROFILES on demand

AUTOSENSE AUTOMATIC Ah/V DETECTION on demand

F1 TRIPLE VOLTAGE SETTING on demand

charge 30 min OPPORTUNITY CHARGE on demand