

CAUMTHYR Chargers

24VDC, 48VDC, 110VDC, 220VDC
DC Power Source

TECHNICAL DATA

MAINS INPUT:

400V Tri phase source +6/-6 % , 50 or 60 Hz ± 4%.
Other voltages and percentage upon request

BATTERIES:

Lead bat.: Float: 2,2 V/cell ± 1%.
Charge: 2,3 V/cell ± 1%.
SLA bat. Float: 2,27 V/cell ± 1% @ 20°C.
Ni-Cad bat.: Float: 1,40 to 1,45 V/cell ± 1%.
Charge: 1,45 to 1,50 V/cell ± 1%.

BATTERY VOLTAGE:

Charger current limit 1 to 1,05 IN
Voltage adjustment: ± 5%
Battery current limit option.

TEMPERATURE COMPENSATION:

Option for SLA batteries.
Correction: -3 mV / °C / cell
Charger Technology: Half controlled silicon bridge with double wounded input transformer

CURRENT RANGE:

25-40-60-80-100-120-160-200-250A...

DC FILTERING:

Standard is 5 % w/o battery - 1% or 0,1 % options

DC VOLTAGES:

12V, 24V, 48V, 110V, 127V, 220V, 240Vdc.
Others upon request

WORKING MODES:

FLOAT – BOOST CHARGE- using 15 timer (except for SLA battery), 2 levels Constant Voltage charging with current limit. MANUAL Mode for commissioning charge (open cells only)

BATTERY, LOAD PROTECTION:

Too high battery voltage: Switches off charger.
Low battery voltage option: Disconnect battery from load, when battery is discharged. Automatic reset when mains is back.

STANDARDS:

EN 50081-1
Emission: EN 55 022 B, EN 61000-3-2
Immunity: EN 55024, EN 61000-4

ALARMS:

LCD + LEDES:
Mains on
Auto/Manual mode
Float/Boost charge
Charger ON
High DC voltage.
End of battery discharge.
Fuse faillure.

REMOTE ALARMS:

Major fault
Minor charger alarm
Other upon request

METERING: DIGITAL METERING

DC charger Load Ammeter - Voltmeter .
Options : analog display, others parameters measurement

LOAD VOLTAGE ADAPTATION:

This option allows load supply within specified voltage range with diode dropper or switched mode DC/DC converters.

(N+1) PARALLELING WITH CURRENT BALANCE upon request

SIZE:

IP 20 cabinet with front door.
Sizes depending on charger rating
Other IP and tropicatisation upon request

CAUMTHYR range has been designed to supply dc critical loads with various DC voltages and batteries. They insure battery charge for lead acid (SLA or open batteries) and nickel cadmium batteries.
This range uses three phase mains. They are taylor made chargers.



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UPS SYSTEMS

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POWER PROTECTION PARTNER**

Product name	VDC (V)	1 dc (A)	3 Ph mains (V)	Box / Cabinet (W x D x H) mm (basic product)	Degree of Protection
CAUMTHYR 24T50	24	50	380/400/415	Wall Box 600x400x600	IP20
CAUMTHYR 24T75		75	380/400/415	Wall Box 600x400x600	
CAUMTHYR 24T100		100	380/400/415	Wall Box 600x400x800	
CAUMTHYR 24T125		125	380/400/415	Wall Box 600x400x800	
CAUMTHYR 24T125		400 x 2	380/400/415	800x800x1800 cabinet	
CAUMTHYR 48T50	48	50	380/400/415	Wall Box 600x400x800	IP20
CAUMTHYR 48T75		75	380/400/415	Wall Box 600x400x800	
CAUMTHYR 48T100		100	380/400/415	600x400x1000 cabinet	
CAUMTHYR 48T125		125	380/400/415	600x400x1400 cabinet	
CAUMTHYR 48T160		160	380/400/415	600x400x1400 cabinet	
CAUMTHYR 48T200	200	380/400/415	600x400x1400 cabinet		
CAUMTHYR 110T50	110	50	380/400/415	600x600x1400 cabinet	IP20
CAUMTHYR 110T75		75	380/400/415	600x400x1000 cabinet	
CAUMTHYR 110T100		100	380/400/415	600x400x1400 cabinet	
CAUMTHYR 110T125		125	380/400/415	600x400x1400 cabinet	
CAUMTHYR 110T160		160	380/400/415	600x400x1400 cabinet	
CAUMTHYR 110T200	200	380/400/415	600x400x1400 cabinet		
CAUMTHYR 220T25	220	25	380/400/415	Wall Box 600x400x800	IP20
CAUMTHYR 220T50		50	380/400/415	600x600x1200 cabinet	
CAUMTHYR 220T70		70	380/400/415	600x400x1000 cabinet	
CAUMTHYR 220T105		105	380/400/415	600x600x1200 cabinet	
CAUMTHYR 220T125		125	380/400/415	600x600x2000 cabinet	
CAUMTHYR 220T160		160	380/400/415	600x600x2000 cabinet	
CAUMTHYR 220T200		200	380/400/415	600x600x2000 cabinet	
CAUMTHYR 220T210		210	400/415/440	800x800x1870 cabinet	

* Above chargers sizes are indicative only and may be adapted upon customer requirements and chargers options.

Paralleling of chargers: Redundant or hot standby charger

