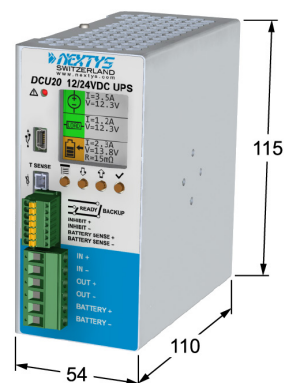


- CPU controlled, LCD interface
- Multiple user settable parameters
- BI VOLTAGE: 12 or 24Vdc
- Battery Chemistry: Lead, Ni-Mh, Li
- Battery charging current: max 5A
- Output Current: max. 20A
- Multiple protections
- Remote shut down
- Cold start
- Monitoring and setup with **POWERMASTER**



For reference only

TECHNICAL DATA

DCU20	
OUTPUT DATA	
Rated output voltage	12Vdc or 24Vdc (range 10...16Vdc or 20...29Vdc)
Rated output current	20A
No load power consumption	< 2W
BATTERY SECTION	
Rated battery voltage	12Vdc or 24Vdc - Other voltages possible by request
Battery chemistries	Lead-Acid / NiMH (NiCd) / Li-ION (LiFePO ₄)
Maximum charge current	5A
Allowed battery capacity	up to 50Ah (charge current @ 0.1C)
Maximum battery current	20A (up to 35A for 5s)
Battery protection	Protected against overcurrent, deep discharge and reverse polarity
BATTERY HEALT MONITOR	
Battery inter. resistance range	1mΩ...300mΩ (using Kelvin connection)
Additional monitORing functions	Coulomb counter
	Battery temperature through optional 10kΩ NTC sensor
	Battery operating time since installation
	Number of cycles
USER INTERFACE	
1.5 inch color graphic LCD	Used to indicate the unit's status and the access the configuration menus
4 buttons	Used to program the unit and to access various menus
Red LED	Constantly on: generic failure on the system, details on the LCD Blinking: battery backup function active
2 Dry contacts (relays) rated 30V/1A	Indicates that the unit is ready to operate (Ready) Indicates a battery failure by toggling at 1Hz Indicates that the load is operating from the battery (Backup)
USB interface	Mini USB connector used to interface the unit with a PC
GENERAL DATA	
Power loss at full load	< 3W (on power supply) / < 7W (on battery)
Battery charger efficiency	> 90%
Battery charger power loss	< 16W
Maximum backup time	User programmable, up to battery deep discharge threshold
Operating temperature	- 20°C...+ 60°C
Storage ambient temperature	- 20°C...+ 85°C
Isolation against enclosure	750Vac
Cooling method	Natural convection cooling
Standards & Approvals	EN60950 (reference), CE marking
EMC Standards	EN61000-6-2, EN61000-6-4
Protection degree	IP20 acc. to EN60529
IN / Battery / OUT Connectors	2.5mm ² , screw type pluggable (24...12AWG)
Auxiliary contacts connectors	0.5mm ² , pluggable (28...20AWG)
Temperature sensor connectors	Friction lock connector
USB Connector	Mini USB connector
Case material	Aluminum
Approx. Weight	0.500kg
Size (W x H x D)	54.0 x 115.0 x 110.0mm
Mounting rail	IEC 60715/H15/TH35-7.5(-15)
Rail mounting information	Vertical, allow 10mm spacing between adjacent items