

<b>Data Sheet</b>	<i>(preliminary)</i>
<b>DR30-STD-STN</b>	
Conventional (dumb) charger for DR30 (or similar) standard form factor dumb batteries	
<b>Issued :</b>	<b>30.03.00</b> <span style="float:right"><b>Page 1</b></span>

Input Voltage	
minimum	maximum
18 V AC	25 V AC

Output Voltage	
minimum	maximum
	15.0 V DC

Tolerance
max. + / -
1 %

Input Power	
Current	Power
800 mA	~ 14 W

Output Power		
Current	Power	Efficiency
800 mA	~ 12 W	> 90 %

Operating Temperature	
minimum	maximum
0 ° C	40 ° C

Storage Temperature	
minimum	maximum
- 40 ° C	70 ° C

Relative Humidity
no condensation
95 %

Electrical Safety Specifications				
Short Circuit	Reverse Voltage	Input Current	Housing Isolation	Cables
continuous	continuous	none	none	n/a

Mechanical Specifications				
MTBF (MIL-HDBK217F)	Housing Material	Thermal	Over Temperature	Cable Mounting
20,000 hours	ABS plastic UL94-V0	EN60950	Dependent upon battery NTC	n/a

Housing Specifications				
Length	Width	Height	Weight (approx.)	Operation Display
100 mm	100 mm	40 mm	180 gm (exc. PSU)	red & green LEDs

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Connector and Cable Specifications				
Input connector	Input cable length	Output connector	Output cable length	Cables
DIN 45323	n/a	AMP 787443-1	n/a	n/a

Electro Magnetic Interference (EMI) Specifications	
Conducted and Radiated Emissions	EN50082
Interference Immunity	EN50081

Charger Specifications				
Description	Parameter	minimum	typical	maximum
Charge Voltage		6.0 V	9.1 V	15.0 V
Primary charge termination	-dV	54 mV		90 mV
Quick charge current		875 mA	900 mA	1050 mA
Back up charge termination	timer	3.8 hours		4.5 hours
Maintenance charge current		5 mA	8 mA	10 mA
Temperature cutoff (lower)	automatic switch to maintenance charge	8 ° C	10 ° C	
Temperature cutoff (upper)		41 ° C	45 ° C	48 ° C
Charge time DR30 (3600 mAh)			5.5 hours	

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Battery Specifications				
Battery type	Cell chemistry	Nominal voltage	Typical capacity	Internal electronic
DR30	NiMH	7.2 V	3600 mAh	only safety components
please consult individual battery manufacturers data sheets for more explicit information				

Test Specifications				
Cold	Dry Heat	Damp Heat	Shock	Vibration
IEC68-2-1	IEC68-2-2	IEC68-2-3	IEC68-2-27 & -29 & -32	IEC68-2-6
all values quoted measured at 25 ° C unless otherwise stated				

Worldwide Approvals	
Norms met and certification attained	CE
Other norms adhered to and / or applied	89/336/EEC & 92/31/EEC

External Power Supply Specifications				
Output @ 0 mA	25 V AC		Output @ 1 A	18 V AC
country	minimum	maximum	frequency	approvals
USA	108 V AC	132 V AC	60 Hz	UL, CSA
Europe	207 V AC	253 V AC	50 Hz	CE, VDE, GS, ÖVE, KEMA, SEV, CEBEC, SETI, UTE, DEMKO, NEMKO, SEMKO
UK	207 V AC	253 V AC	50 Hz	BATB, BSI