

	1-cell	2-cell	3-cell	4-cell
Available versions	x		x	x
Input voltage	110 - 230 VAC			
Line frequency	47 - 63Hz			
Max output power	31W	62W	93W	102W
Ripple	<100mV p-p			
Efficiency (at 100% load, 230V) approx.	>85%	>87%	>89%	>89%
Leakage current from battery with mains switched off	<1.3mA			
Step 1 Charge current: Orange	8.5A +0.1/-0.75A	8.5A +0.1/-0.75A	8.5A +0.1/-0.75A	7.0A+0.05/-0.65A
Step 2 Charge voltage	3.65V ±0.05V	7.3V ±0.1V	10.95V ±0.1V	14.6V ±0.1V
- Charge current >: Orange <: Yellow	3.8A ±0.2A	3.5A ±0.2A	3.1A ±0.2A	2.7A ±0.2A
Step 3 Charge termination (2) <: Green	300mA ±30%			
Float charge voltage	3.5V ±0.05V	7.0V ±0.1V	10.5V ±0.1V	14.0V ±0.1V
NTC input on request (10K)	0-45°C normal charge <0 or >45°C reduced charge (LED indication is yellow)			
Switch frequency approx.	65kHz			
Protection	Protected against reversed polarity and short circuit proof			
Temperature range	Operating: ÷25 to +40oC / Storage: ÷25 to +85oC			
Safety	EN 60601-1, EN 60335-2-29			
Insulation class	Class II			
Insulation voltage: Primary – secondary	4000VAC / 5700VDC			
EMC standards	Med. EN 60601-1-2 / Emission EN 61000-6-3 / Immunity EN 61000-6-1			
Mains connection	2-pins IEC 60320/C8 connector. (Non-detachable mains cord on request)			
Output terminals	Battery clips or DC connector.			
IP-Grade	IP41 (IP67 on request).			
Dimensions	160 × 81 × 44.3mm			
Weight	540g (1040g IP67 version)			

	5-cell	6-cell	7-cell	8-cell
Available versions				x
Input voltage	110 - 230 VAC			
Line frequency	47 - 63Hz			
Max output power	100W	101W	100W	102W
Ripple	<100mV p-p			
Efficiency (at 100% load, 230V) approx.	>89%			
Leakage current from battery with mains switched off	<1.3mA			
Step 1 Charge current: Orange	5.5A +0.1/-0.45A	4.6A +0.1/-0.4A	3.9A+0.1/-0.3A	3.5A+0/-0.4A
Step 2 Charge voltage	18.25V ±0.2V	21.9V ±0.2V	25.55V ±0.2V	29.2V ±0.2V
- Charge current >: Orange <: Yellow	1.9A ±0.2A	1.7A ±0.2A	1.6A ±0.2A	1.4A ±0.2A
Step 3 Charge termination (2) <: Green	300mA ±30%			
Float charge voltage	17.5V ±0.1V	21.0V ±0.2V	24.5V ±0.2V	28.0V ±0.2V
NTC input on request (10K)	0-45°C normal charge <0 or >45°C reduced charge (LED indication is yellow)			
Switch frequency approx.	65kHz			
Protection	Protected against reversed polarity and short circuit proof			
Temperature range	Operating: ÷25 to +40oC / Storage: ÷25 to +85oC			
Safety	EN 60601-1, EN 60335-2-29			
Insulation class	Class II			
Insulation voltage: Primary – secondary	4000VAC / 5700VDC			
EMC standards	Med. EN 60601-1-2 / Emission EN 61000-6-3 / Immunity EN 61000-6-1			
Mains connection	2-pins IEC 60320/C8 connector. (Non-detachable mains cord on request)			
Output terminals	Battery clips or DC connector.			
IP-Grade	IP41 (IP67 on request).			
Dimensions	160 × 81 × 44.3mm			
Weight	540g (1040g IP67 version)			

	9-cell	10-cell	11-cell	12-cell
Available versions			x	x
Input voltage	110 - 230 VAC			
Line frequency	47 - 63Hz			
Max output power	102W	102W	96W	101W
Ripple	<100mV p-p			
Efficiency (at 100% load, 230V) approx.	0.89	0.89	>89%	0.89
Leakage current from battery with mains switched off	<1.3mA	<1.3mA	<1.0mA	<1.3mA
Step 1 Charge current: Orange	3.1A +0/-0.4A	2.8A +0/-0.3A	2.4A +0.1/-0.3A	2.3A +0.05/-0.3A
Step 2 Charge voltage	32.85V ±0.2V	36.5V ±0.3V	40.15V ±0.3V	43.8V ±0.3V
- Charge current >: Orange <: Yellow	1.3A ±0.2A	1.2A ±0.2A	1.2A ±0.2A	0.9A ±0.2A
Step 3 Charge termination (2) <: Green	300mA ±30%			
Float charge voltage	31.5V ±0.2V	35.0V ±0.2V	38.5V ±0.4V	42.0V ±0.4V
NTC input on request (10K)	0-45°C normal charge <0 or >45°C reduced charge (LED indication is yellow)			
Switch frequency approx.	65kHz			
Protection	Protected against reversed polarity and short circuit proof			
Temperature range	Operating: ÷25 to +40oC / Storage: ÷25 to +85oC			
Safety	EN 60601-1, EN 60335-2-29			
Insulation class	Class II			
Insulation voltage: Primary – secondary	4000VAC / 5700VDC			
EMC standards	Med. EN 60601-1-2 / Emission EN 61000-6-3 / Immunity EN 61000-6-1			
Mains connection	2-pins IEC 60320/C8 connector. (Non-detachable mains cord on request)			
Output terminals	Battery clips or DC connector.			
IP-Grade	IP41 (IP67 on request).			
Dimensions	160 × 81 × 44.3mm			
Weight	540g (1040g IP67 version)			

	13-cell	14-cell	15-cell	16-cell
Available versions				
Input voltage	110 - 230 VAC			
Line frequency	47 - 63Hz			
Max output power	102W	102W	99W	99W
Ripple	<100mV p-p			
Efficiency (at 100% load, 230V) approx.	0.89			
Leakage current from battery with mains switched off	<1.3mA			
Step 1 Charge current: Orange	2.15A +0/-0.3A	2.0A +0/-0.2A	1.8A+0.05/-0.2A	1.7A +0.05/-0.2A
Step 2 Charge voltage	47.45V ±0.3V	51.1V ±0.3V	54.75V ±0.3V	58.4V ±0.3V
- Charge current >: Orange <: Yellow	0.8A ±0.2A	0.7A ±0.2A	0.6A ±0.2A	0.6A ±0.2A
Step 3 Charge termination (2) <: Green	300mA ±30%			
Float charge voltage	45.5V ±0.4V	49.0V ±0.4V	52.5V ±0.4V	56.0V ±0.4V
NTC input on request (10K)	0-45°C normal charge <0 or >45°C reduced charge (LED indication is yellow)			
Switch frequency approx.	65kHz			
Protection	Protected against reversed polarity and short circuit proof			
Temperature range	Operating: ÷25 to +40oC / Storage: ÷25 to +85oC			
Safety	EN 60601-1, EN 60335-2-29			
Insulation class	Class II			
Insulation voltage: Primary – secondary	4000VAC / 5700VDC			
EMC standards	Med. EN 60601-1-2 / Emission EN 61000-6-3 / Immunity EN 61000-6-1			
Mains connection	2-pins IEC 60320/C8 connector. (Non-detachable mains cord on request)			
Output terminals	Battery clips or DC connector.			
IP-Grade	IP41 (IP67 on request).			
Dimensions	160 × 81 × 44.3mm			
Weight	540g (1040g IP67 version)			