



AC input side





DC output side

























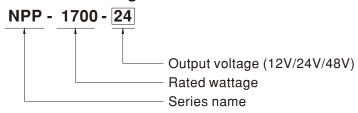
Features

- Multi-function single unit battery charger or power supply operation modes selectable
- Output voltage and current adjustable via potentiometer
- 3-stage charging curve for charging mode
- -30~+70°C wide operating temperature
- Multiple protections: Short circuit / Over load / Over voltage / Over temperature
- Thermal controlled DC fan for noise reduction.
- · Remote ON-OFF control
- Comply with 62368-1+60335-1/-2-29 dual certification
- · Suitable for lead-acid (Pb) batteries
- Carry handle accessory available (Order NO.:Carry handle, sold separately)
- 3 years warranty

Description

NPP-1700 is a miniaturized dual-purpose charger and power supply. In addition to being used as a three-stage charger for lead-acid batteries, it can also be used as a constant voltage output power supply to drive general load. The operating mode can be quickly switched by plugging or unplugging a connector on the front panel. Other features include: ultra-wide voltage output, adjustable voltage via VR on the panel (10.5~21V, 21~42V, 42~80V), adjustable charging current (50~100%), built-in intelligent fan with variable speed based on temperature to reduce noise and extend fan lifetime, -30~+70° C wide operating temperature, suitability for use in different environments, built-in remote ON/OFF control, compliance to IEC/EN/UL62368-1 and household EN60335-1/-2-29 dual safety, multiple built-in protections, and 3-year warranty. The NPP-1700 is truly an intelligent, safe, and reliable universal dual-purpose charger and power supply with outstanding cost performance.

Model Encoding



Applications

- · Radio system backup solution
- · Electric scooter charger
- · Camping car · Buses · Heavy duty truck · Specialty vehicles
- Surveillance system
- Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment

■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



SPECIFICATION for Battery Charger mode (Default)

MODEL		NPP-1700-12	NPP-1700-24	NPP-1700-48			
	BOOST CHARGE VOLTAGE(Vboost)(default	14.4V	28.8V	57.6V			
OUTPUT	FLOAT CHARGE VOLTAGE(Vfloat)(default)	13.8V	27.6V	55.2V			
	VOLTAGE AD ILICTADI E DANGE	10.5 ~ 21V	21 ~ 42V	42 ~ 80V			
	VOLTAGE ADJUSTABLE RANGE	By built-in potentionmeter					
	MAX. OUTPUT CURRENT(CC)	85A	50A	25A			
	CURRENT ADJUSTABLE RANGE	42.5 ~ 85A	25 ~ 50A	12.5 ~ 25A			
	Note.3	By built-in potentionmeter					
	MAX. POWER	1428W	1680W	1680W			
	RECOMMENDED BATTERY	300 ~ 1000AH	200 ~ 640AH	100 ~ 330AH			
	CAPACITY (AMP HOURS) Note.4		255 6.67.11	100 000/111			
		90 ~ 264VAC 250 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz PF>0.98/115VAC, PF>0.95/230VAC at full load					
INPUT	POWER FACTOR (Typ.)			94%			
	EFFICIENCY (Typ.) Note.6	14.8A/115VAC 9.3A/230VAC	93%	94%			
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	14.6A/115VAC 9.5A/250VAC COLD START 50A at 230VAC					
	LEAKAGE CURRENT	<0.75mA/240VAC (60335-1/2-29), <	1.5m \ Paak/240\/\C (62368-1)				
		, , , , , ,	niting, charger will shutdown, re-power or	n to recover			
		21.5 ~ 26V	43 ~ 52V	82 ~ 100V			
PROTECTION	OVER VOLTAGE		1.5 52.	02 100V			
	OVER TEMPERATURE	*'	Protection type: Shut down and latch off o/p voltage, re-power on to recover Shut down O/P voltage, recovers automatically after temperature goes down				
	CHARGING STAGE	3 stage only	sindically ditor tomporatare good down				
	CHARGER OK SIGNAL	The TTL signal out, Charger OK = H(4.5 ~ 5.5V); Charger failure or protection status =L(-0.5 ~ +0.5V)					
FUNCTION	BATTERY FULL SIGNAL	The TTL signal out, Battery full = H(4	.5 ~ 5.5V); Charging = L(-0.5 ~ +0.5V)				
	REMOTE CONTROL	Open : Charger stop charging S	hort : Charger normal work				
	FAN ON/OFF CONTROL	Depends on internal temperature					
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Cur	ve")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.05%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60mir	n. each along X, Y, Z axes				
	SAFETY STANDARDS	CB IEC62368-1,IEC60335-1/2-29, Del	kra BS EN/EN62368-1,BS EN/EN60335-1/	2-29, UL62368-1, EAC TP TC 004 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms	s/500VDC/25°C/70% RH				
		Parameter	Standard	Test Level / Note			
		Conducted	BS EN/EN55032 (CISPR32)	Class B			
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A			
	EMC EMISSION						
	EMC EMISSION	Harmonic Current	BS EN/EN61000-3-2	Class A			
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3				
EMC		Voltage Flicker Parameter	BS EN/EN61000-3-3 Standard	Test Level / Note			
EMC		Voltage Flicker Parameter ESD	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact			
EMC		Voltage Flicker Parameter ESD Radiated	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m			
EMC		Voltage Flicker Parameter ESD Radiated EFT / Burst	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV			
EMC		Voltage Flicker Parameter ESD Radiated EFT / Burst Surge	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line, Level 3, 2KV/Line-Ear			
EMC		Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line, Level 3, 2KV/Line-Ear Level 2, 3Vrms			
EMC		Voltage Flicker Parameter ESD Radiated EFT / Burst Surge	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line, Level 3, 2KV/Line-Ear Level 2, 3Vrms Level 1, 1A/m			
EMC		Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line, Level 3, 2KV/Line-Ear Level 2, 3Vrms			
EMC		Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ear Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 periods			
EMC Note 8)	EMC IMMUNITY	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Eat Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods			
EMC Note 8)	EMC IMMUNITY MTBF	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Eat Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods			
EMC (Note 8)	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/14Kg / 2.58CUFT cification may be required for different by mentioned are measured at 230VAC	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Eal Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods DBK-217F (25°C)			
EMC (Note 8)	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall 3. Float charge voltage(Vfloat)	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/ 14Kg / 2.58CUFT cification may be required for different to the surface of the sur	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE coattery specification. Please contact batter input, rated load and 25°C of ambient ter	Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line, Level 3, 2KV/Line-Ea Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods DBK-217F (25°C) ry vendor and MEAN WELL for details. mperature.			
EMC (Note 8)	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall 3. Float charge voltage(Vfloat) 4. This is MEAN WELL's sugg	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/ 14Kg / 2.58CUFT cification may be required for different by mentioned are measured at 230VAC adjustable via potentiomerter in battery ested range. Please consult your batter	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE pattery specification. Please contact batter input, rated load and 25°C of ambient ter charger mode. ry manufacturer for their suggestions about	Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line, Level 3, 2KV/Line-Ea Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods DBK-217F (25°C) ry vendor and MEAN WELL for details. mperature.			
EMC (Note 8)	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall 3. Float charge voltage(Vfloat) 4. This is MEAN WELL's sugg 5. Derating may be needed ur	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/ 14Kg / 2.58CUFT cification may be required for different by mentioned are measured at 230VAC adjustable via potentiomerter in battery ested range. Please consult your batter low input voltages. Please check the	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE pattery specification. Please contact batter input, rated load and 25°C of ambient ter charger mode. ry manufacturer for their suggestions about the derating curve for more details.	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Eal Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods DBK-217F (25°C) Ty vendor and MEAN WELL for details. Interruptions 250 details. Interruptions 250 details.			
EMC (Note 8)	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall 3. Float charge voltage(Vfloat) 4. This is MEAN WELL's sugg 5. Derating may be needed ur 6. The efficiency is measured	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/ 14Kg / 2.58CUFT cification may be required for different by mentioned are measured at 230VAC adjustable via potentiomerter in battery ested range. Please consult your batter low input voltages. Please check the	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE contact specification. Please contact batter input, rated load and 25°C of ambient ter charger mode. Ty manufacturer for their suggestions about the derating curve for more details. 3.6V charge voltage(24V model), 67.2V ci	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ear Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods DBK-217F (25°C) Ty vendor and MEAN WELL for details. Interruptions 250 details. Interruptions 250 details.			
SAFETY & EMC (Note 8) OTHERS	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall 3. Float charge voltage(Vfloat) 4. This is MEAN WELL's sugg 5. Derating may be needed ur 6. The efficiency is measured 7. This protection mechanism	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/14Kg / 2.58CUFT cification may be required for different to the company of the com	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE contact specification. Please contact batter input, rated load and 25°C of ambient ter charger mode. Ty manufacturer for their suggestions about the derating curve for more details. 3.6V charge voltage(24V model), 67.2V ci	Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ear Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods DBK-217F (25°C) Ty vendor and MEAN WELL for details. Imperature. ut maximum charging current limitation. tharge voltage(48V model).			
EMC (Note 8)	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall 3. Float charge voltage(Vfloat) 4. This is MEAN WELL's sugg 5. Derating may be needed ur 6. The efficiency is measured 7. This protection mechanism 8. The charger is considered a a 600mm*900mm metal pla	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/ 14Kg / 2.58CUFT cification may be required for different to the surface of the su	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE contact specification. Please contact batter input, rated load and 25°C of ambient terminate in charger mode. Try manufacturer for their suggestions about the derating curve for more details. 3.6V charge voltage(24V model), 67.2V cit to ccurs after the charger is turned on. a final equipment. All the EMC tests are uipment must be re-confirmed that it still minimum and the second s	Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Eal Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods DBK-217F (25°C) Ty vendor and MEAN WELL for details. Interruptions details. Interruptions details. The details details details details details. The details details details details details details details details. The details d			
EMC (Note 8)	MTBF DIMENSION PACKING 1. Modification for charger spe 2. All parameters NOT speciall 3. Float charge voltage(Vfloat) 4. This is MEAN WELL's sugg 5. Derating may be needed ur 6. The efficiency is measured 7. This protection mechanism 8. The charger is considered a a 600mm*900mm metal pla perform these EMC tests, p	Voltage Flicker Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 577.4K hrs min. Telcordia SR-332 307.7*184*70mm (L*W*H) 2.96Kg; 4pcs/14Kg / 2.58CUFT cification may be required for different to the component work of the component work of the component which will be installed into	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 (Bellcore); 58.5K hrs min. MIL-HE coattery specification. Please contact batter input, rated load and 25°C of ambient ter charger mode. ry manufacturer for their suggestions about the derating curve for more details. 3.6V charge voltage(24V model), 67.2V control of the cocurs after the charger is turned on. a final equipment. All the EMC tests are unimpower supplies."	Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Eal Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods DBK-217F (25°C) Ty vendor and MEAN WELL for details. Imperature. ut maximum charging current limitation. tharge voltage(48V model). been executed by mounting the unit on			

9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

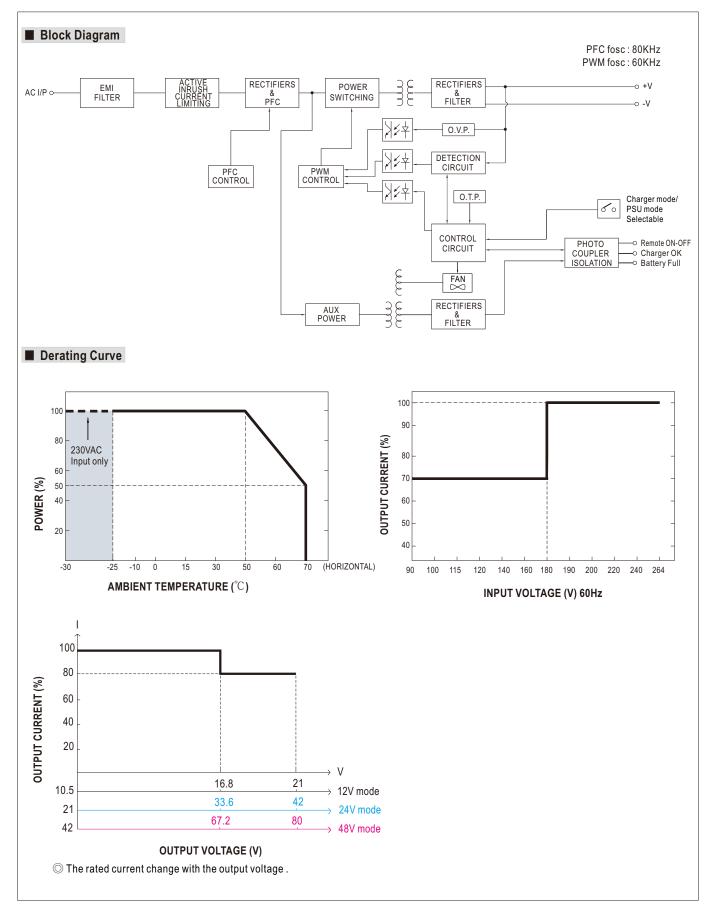
 $\begin{tabular}{ll} \hline \& Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx \end{tabular}$



SPECIFICATION for Power Supply mode (Selectable via pin3 & 4 jumper of 14pins connector on panel)

OC VOLTAGE /OLTAGE ADJUSTABLE RANGE CURRENT ADJUSTABLE RANGE	14.4V 10.5 ~ 21V	28.8V 21 ~ 42V	57.6V 42 ~ 80V			
CURRENT ADJUSTABLE RANGE		21 ~ 42V	42 ~ 80\/			
CURRENT ADJUSTABLE RANGE	By huilt-in notentionmeter		42 00 V			
	by built-in potentionineter		By built-in potentionmeter			
	42.5 ~ 85A	25 ~ 50A	12.5 ~ 25A			
RATED CURRENT	85A	50A	25A			
RATED POWER	1428W	1680W	1680W			
RIPPLE & NOISE(max.)	180mVp-p	300mVp-p	480mVp-p			
OLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%			
			±0.5%			
			±0.5%			
			1 = 0.0 %			
,						
		ovac at full load				
` • • •	· · · · · · · · · · · · · · · · · · ·		0.40/			
() ()		93%	94%			
\ 71 /						
		1.5.15.1(0.10)(1.0.(0.000.1)				
EAKAGE CURRENT		1.5mA Peak/240VAC (62368-1)				
OVERLOAD	<u> </u>					
SHORT CIRCUIT						
OVER VOLTAGE			82 ~ 100V			
71211 10211102						
OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down					
REMOTE CONTROL	Open: Power OFF Short: Power	er ON				
OC OK	The TTL signal out, DC OK = $H(4.5 \sim 5.5V)$; Power supply failure or protection = $L(-0.5 \sim +0.5V)$					
AN SPEED CONTROL	Depends on internal temperature					
VORKING TEMP.	-30 ∼ $+70$ °C (Refer to "Derating Curv	re")				
VORKING HUMIDITY	20 ~ 95% RH non-condensing					
STORAGE TEMP., HUMIDITY	$-40 \sim +85^{\circ}$ C, $10 \sim 95\%$ RH non-condensing					
EMP. COEFFICIENT	±0.05%/°C (0~50°C)					
/IBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60mi	n. each along X, Y, Z axes				
SAFETY STANDARDS	CB IEC62368-1,IEC60335-1/2-29, De	kra BS EN/EN62368-1,BS EN/EN60335-1	/2-29, UL62368-1, EAC TP TC 004 approved			
VITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC (D/P-FG:0.5KVAC				
SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms	s/500VDC/25°C/70% RH				
	Parameter	Standard	Test Level / Note			
	Conducted	BS EN/EN55032 (CISPR32)	Class B			
MC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A			
	Harmonic Current		Class A			
			Test Level / Note			
			Level 3, 8KV air ; Level 2, 4KV contact			
			Level 2, 3V/m			
			Level 2, 1KV			
EMC IMMUNITY	-		Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea			
			Level 2, 3Vrms			
			Level 1, 1A/m			
	Magnetic Fleid	B3 EIN/EIN01000-4-0	,			
	Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods			
MTBF		(Bellcore); 58.5K hrs min. MIL-H	DBK-217F (25°ℂ)			
DIMENSION	307.7*184*70mm (L*W*H)					
PACKING	2.96Kg; 4pcs/ 14Kg / 2.58CUFT					
1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. 2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 3. Derating may be needed under low input voltages. Please check the derating curve for more details. 4. The PSU is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 600mm*900mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)			en executed by mounting the unit on meets EMC directives. For guidance on how to			
	REQUENCY RANGE OWER FACTOR (Typ.) FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT (Typ.) EAKAGE CURRENT VERLOAD HORT CIRCUIT VER VOLTAGE VER TEMPERATURE EMOTE CONTROL C OK AN SPEED CONTROL /ORKING TEMP. /ORKING HUMIDITY TORAGE TEMP., HUMIDITY EMP. COEFFICIENT IBRATION AFETY STANDARDS //ITHSTAND VOLTAGE SOLATION RESISTANCE MC EMISSION MC EMISSION MC IMMUNITY TORAGE TEMP. COMMUNITY AFETY STANDARDS //ITHSTAND VOLTAGE COLATION RESISTANCE MC EMISSION MC EMISSION ACKING I. Modification for charger speed C. All parameters NOT specially C. All parameters not speciall	DAD REGULATION	DAD REGULATION			







■ Function Manual

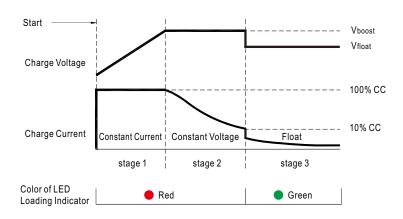
1. Battery Charger or Power Supply Operation modes selectable via pin3 and pin4 jumper

Between pin3 and pin4	Operation modes
Jumper connected	Power supply mode
Jumper removed	Battery charger mode (Default)



2. Charging Curve (Charging Mode)

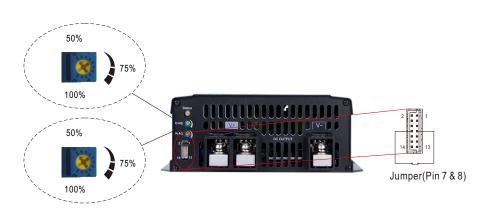
© 3 stage charging curve



State	NPP-1700-12	NPP-1700-24	NPP-1700-48
Constant Current	85A	50A	25A
Vboost	14.4V	28.8V	57.6V
Vfloat	13.8V	27.6V	55.2V

O Suitable for lead-acid batteries (flooded, Gel and AGM)





※ V₀ x I₀ must be less than or equal to the rated power. Please refer to derating curve (page 4).

3. Charger OK / DC OK Signal

Charger OK / DC OK signal is a TTL level signal.

The maximum sourcing current is 10mA.

Charger OK / DC OK signal	Charger status
"High": 4.5 ~ 5.5V	Work normally
"Low": -0.5 ~ 0.5V	Failure or protection function activated



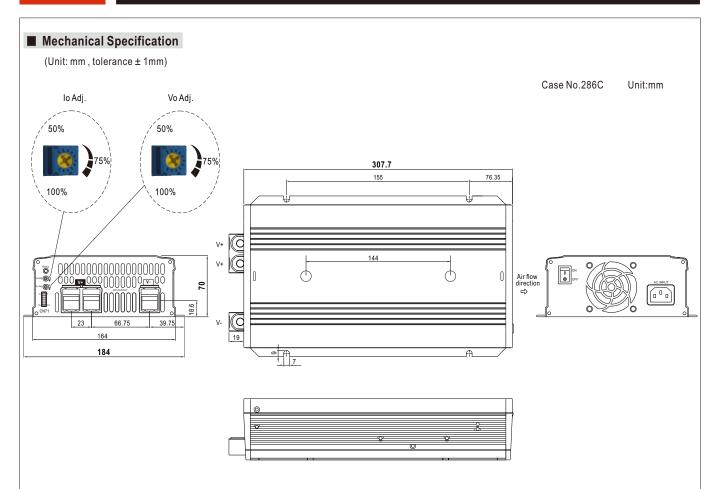
4.Remote ON-OFF Control

The NPP-1700 can be turned ON/OFF by using the "Remote Control" function.

Between pin7 remote ON-OFF and pin8 +12Vaux	Charger status
Short (Pin 7 = 10.8 ~ 13.2V)	ON (Default)
Open (Pin 7 = -0.5 ~ 0.5V)	OFF



1700W High Reliable Ultra Wide Output Range Battery Charger & Power Supply 2-in-1 NPP-1700 series



$\frak{\%}$ Connector Pin No. Assignment : HRS DF11-14DP-2DS or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,11~14	NC		
3,4	Battery Charger or		
0,4	Power Supply mode selectable		
5	Battery Full	HRS DF11-14DS	HRS DF11-**SC
6	Charger OK (Charger mode) or	or equivalent	or equivalent
	DC OK (Power supply mode)		
7	Remote ON-OFF		
8	+12V-AUX		
9,10	GND-AUX		

※ LED Status Table

Charger (Default)		
LED Indicator	Status	
Green	Float stage (stage 3) or full charged	
Red	Charging (stage 1 or stage 2)	
O No Light	Abnormal	
Power supply mode		
LED Indicator	Status	
Green	Normal working	
O No Light	Abnormal	



 $\fint M$ Control Pin No. Assignment : HRS DF11-14DP-2DS or equivalent

2	1
14	13

Mating Housing	HRS DF11-14DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description
1,2,11~14	NC	
3,4	Battery charger / Power supply	Open: Battery charger, Color of LED loading indicator: Reference to battery charger. Short: Power supply, Color of LED loading indicator :Green.
5	Battery Full	Battery Full Signal, referenced to GND-AUX(Pin 9 & 10). The Signal is a TTL level signal. The maximum sourcing current is 10mA and only for output.(Note.2) Low (-0.5 ~ 0.5V): When the battery is charging. High (4.5 ~ 5.5V): When the battery is full.
6	Charger OK / DC OK	Charger OK / DC OK Signal, referenced to GND-AUX(Pin 9 & 10). The Signal is a TTL level signal. The maximum sourcing current is 10mA and only for output.(Note.2) Low (-0.5 \sim 0.5V): When the charger fails or the protect function is activating. High (4.5 \sim 5.5V): When the charger is working properly.
7	Remote ON-OFF	Remote charger ON/OFF Function. The charger can turn the output ON/OFF by dry contact between Remote ON-OFF and +12V-AUX.(Note.2) Short (10.8 ~ 13.2V): Charger ON; Open(-0.5 ~ 0.5V): Charger OFF; The maximum input voltage is 13.2V.
8	+12V-AUX	It is controlled by the Remote ON-OFF control.
9,10	GND-AUX	The signal return is isolated from the output terminal. (+V & -V)

Note 1: Non-isolated signal, referenced to [GND (signal)].

Note2: Isolated signal, referenced to GND-AUX

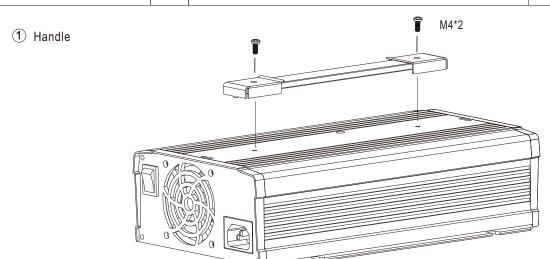
■ Accessory List

 \divideontimes Battery Charger or Power Supply mode of pin 3 and pin 4 mating pin along with NPP-1700 (Standard accessory)

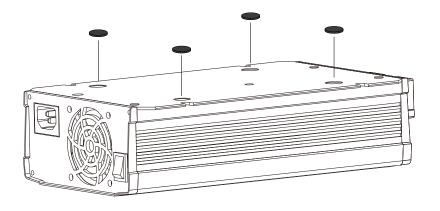
Pin 3 and Pin 4 mating pin	Quantity
	1
1FF1HMJ20-020-95BS or equivalent	



MW's Order No.	Item		Quantity
Carry Handle	1	Handle	1
	2	Foot pad	4
	3	Screw	2



2 Foot pad



■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html